# **Curriculum Companions**

# Year 9

**Term Two** 

Name:

Tutor Group:



# Drama | What skills do I need to be successful in Drama? | Skills Organiser

### Drama: Term 1 – Skills Dictionary:

### Rank yourself based on your confidence in each skill in week 1 and in week 12

4= Excellent understanding (no areas for development, fully consistent)
3= Good understanding (many strengths and a few areas for development, consistent)
2=Basic understanding (some strengths and some areas for development, mostly consistent)
1=No understanding (few strengths and many areas for development, inconsistent)

Vocal Skill	Definition	Examples of how to improve	1	12	Physical Skill	Definition	Examples of how to improve	1	12
projection	Using the voice to fill the performance space. E.g: An actor working in the hall will have to project more than an actor	. Diaphragm exercises. Breathing exercises Vocal warm ups.			gesture	Using the body to communicate character/ emotion.	Exaggeration Selecting key words Mime		
	performing in the studio. <b>Projection</b> is important because the audience need to hear you.				facial expression	Using the face to communicate character/ emotion.	Facial warm ups – chewing toffee etc Rehearsing with a mirror.		
articulation	Speaking clearly so the dialogue can be understood.	Vocal Warm Ups Tongue twisters Focus on consonants				How fast or			
tone	Communicating emotion with the voice	Knowing character and their motivation: Units and objectives Subtext Given Circumstance Opera			pace (movement)	slowly you move	Jacques LeCoq's 7 levels of tension.		
		exercise.			levels	How high or low	Utilising		
pace (voice)	How fast or slow you speak.	Recording dialogue. Extreme Slow down Extreme Speed up				you are compared to something/some one else	blocks/chairs etc		
volume	How loud or quiet you are.	Play with volume, Extremely loud/ quiet. Note impact.			space	The distance between two	Draw the stage out using		
pitch	How high or low the voice is	Scales				people or things.	masking tape.		

# Term 2 | Exploring Practitioners | Knowledge Organiser

# <u>Boal</u>

- A Brazilian Practitioner
- They used theatre as a political tool to help the people of South America find their voices and challenge dictatorships.
- His style of theatre became known as the 'Theatre of the Oppressed'



	Week	What will I learn?	at will I learn? To explore Boal, we will be using drama go improvisation and devised performanc		
	1	Drama Games	Half term 2 Finding Max (Devising)		
	2	The Spect-actor	Forum Theatre	A type of theatre in which the	
	3	The Joker		audience can influence the outcome of the play	
			Spect-actor	Someone who engages in Forum Theatre	
	4	Applying techniques	Joker	Someone who facilitates Forum Theatre	
	5	Applying techniques	Oppression	Cruel or unjust treatment by someone with more power over	
	6	Performance		those with less power	

Term 1   How can I track my development in Drama?   Knowledge Organiser			
Checkpoint 1	Checkpoint 2	Checkpoint 3	
<ul> <li>I lead my ensemble and ensure everyone's ideas are heard.</li> <li>I am always focused in rehearsal and encourage others to do so as well.</li> <li>I apply a range of Boal's techniques effectively.</li> <li>I include physical and vocal skills to enhance the performance.</li> <li>I interpret the characters with innovation and creativity</li> </ul>	<ul> <li>I lead my ensemble and ensure everyone's ideas are heard.</li> <li>I am always focused in rehearsal and encourage others to do so as well.</li> <li>I apply a range of Boal's techniques effectively.</li> <li>I include physical and vocal skills to enhance the performance.</li> <li>I interpret the characters with innovation and creativity</li> </ul>	<ul> <li>I lead my ensemble and ensure everyone's ideas are heard.</li> <li>I am always focused in rehearsal and encourage others to do so as well.</li> <li>I apply a range of Boal's techniques effectively.</li> <li>I include physical and vocal skills to enhance the performance.</li> <li>I interpret the characters with innovation and creativity</li> </ul>	
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# Term 2 | Exploring Practitioners | Knowledge Organiser

# Lin Manuel Miranda

- Lin Manuel Miranda is a Puerto-Rican American.
- He has been a pioneer of Musical theatre,
- He created the Broadway musicals In the Heights (2005) and Hamilton (2015), and the soundtracks for the animated films Moana (2016), Vivo, and Encanto (both 2021).
- He has received numerous accolades including a Pulitzer Prize, three Tony Awards, two Laurence Olivier Awards, two Primetime Emmy Awards, and five Grammy Awards, along with nominations for two Academy Awards.



Week	What will I learn?
1	Musical theatre
2	Hamilton
3	Moana
4	In the Heights
5	Encanto
6	Applying techniques

To explore Miranda, we will be using a range of Musical Theatre techniques. Half term 2 Finding Max (Devising)	
Libretto	The script printed with all music
Exposition	an explanation, normally in the dialogue, of events preceding the beginning of a dramatic piece or taking place offstage, and which the audience needs to know
Stagecraft	Producing or participating in the technical aspects of theatre

Term 2   How can I track my development in Drama?   Knowledge Organiser			
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### Y9 English | Noughts and Crosses | Knowledge Organiser

# 1. How does Blackman use a dystopian society to reflect our own?

- Blackman flips racism to show how it feels to be oppressed.
- Segregation in the book reflects realworld racism like the South African apartheid, segregated America
- Sephy and Callum's love shows how prejudice hurts lives.
- The story highlights unfair systems and how people resist them.

# 2. How do hatred and discrimination lead to tragedy?

- Broken Relationships: Hatred and discrimination destroy Sephy and Callum's love, tearing them apart and causing deep personal pain.
- Cycle of Violence: Prejudice fuels anger and rebellion, leading to tragic consequences like deaths and shattered families.
- Lost Potential: Discrimination stops characters like Callum from achieving their dreams, showing how unfair systems ruin lives.
- Forbidden love links to Romeo and Juliet

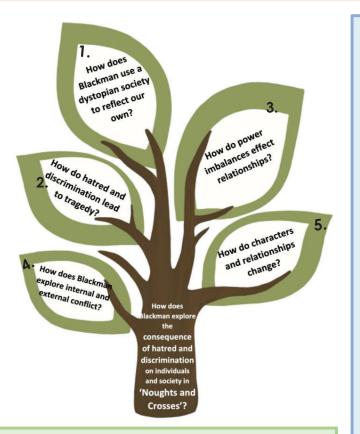
#### 5. How do characters and relationships change?

Sephy and Callum grow as they face the harsh realities of prejudice, shifting from innocence to a deeper understanding of the world's injustices.

Characters such as Jude and other members of the LM evolve by becoming fuelled by more hatred.

#### 3. How do power imbalances effect relationships?

Power imbalances strain Sephy and Callum's relationship, as Sephy's privilege as a Cross clashes with Callum's hardships as a Nought. These divides also create tension within their families, with Callum's family turning to rebellion and Sephy's family enforcing the racist system. Friendships are tested or destroyed by prejudice, mistrust, and societal pressures, leading to conflict, heartbreak, and ultimately, tragedy.



# 4. How does Blackman explore internal and external conflict?

- Sephy's Internal Conflict: Sephy struggles with her privileged position as a Cross and her love for Callum, feeling torn between her beliefs and her family's racist views.
- **Callum's Internal Conflict:** Callum grapples with feelings of anger and helplessness as a Nought in an oppressive society, while trying to maintain hope and protect his loved ones.
- External Conflict in Families: Callum's family, especially his mother Meggie and brother Jude, experience division over how to resist oppression, with Jude turning to violent rebellion. Meanwhile, Sephy's family enforces Cross dominance, with her father prioritising power over his daughter's happiness.
- Friendships Tested: Callum's childhood friendship with Sephy and relationships with others, like his sister Lynette, are strained or destroyed by societal divisions and personal choices.
- Societal Conflict: The overarching racial divide between Noughts and Crosses drives protests, violence, and tragic events, impacting every character and revealing the far-reaching effects of prejudice.

	Y9 English   Nought and Crosses   Topic Dictionary			
Image	Word	Definition	In a sentence	
	ambiguous	Something that is unclear or confusing because it can be understood in more than one way.	Noughts and Crosses ends with a sense of <b>ambiguity</b> .	
	equality	The same status, rights, and responsibilities for all the members of a society, group, or family.	The noughts fight for <b>equality</b> as they deserve the same rights as Crosses.	
	justice	Fairness in the way that people are treated.	Fair and equal treatment towards noughts is the only way they can get <b>justice</b> .	
<sup>**</sup> * <sup>***</sup> ** *****	militia	A group of people who have been trained as soldiers but are not part of a country's official army.	The Liberation <b>militia</b> are a group of people that protest/riot against the discrimination and mistreatment of noughts.	
	prejudice	An unreasonable dislike of a particular group of people or things, or a preference for one group of people or things over another.	The crowd at the school behave in a <b>prejudiced</b> way when they protest against Callum joining their cross school.	
	privilege	Someone who is privileged has an advantage or opportunity that most other people do not have, often because of their wealth or high social class.	Sephy has a lot more <b>privilege</b> than Callum as she is a Cross and part of the superior race in the dystopian world.	
		Jude is a victim of <b>radicalisation</b> as he uses violent means in order to fight for the freedom of noughts.		
A.	rebellion	A rebellion is an act of armed resistance to a government or leader.	The LM spark a <b>rebellion</b> against the government that controls them.	
	relentless	Something bad that never stops or never becomes less intense.	Both sides of the protest are <b>relentless</b> in their arguments.	
	reprieve	To stop or delay the punishment, especially by death, of a prisoner.	Ryan was given a last minute <b>reprieve</b> before his planned execution.	
Λ	segregation	The official practice of keeping people apart, usually people of different sexes, races, or religions.	The main in this dystopia is <b>segregation</b> between races.	

Y9 English   Nought and Crosses   Topic Terminology			
Word	Definition	In a sentence	
aside	A comment that a character in a play makes to the audience, which the other characters are supposed not to be able to hear.	We see Callum do an <b>aside</b> when he talks to himself out loud.	
characterisation	The way an author, playwright or actor describes or shows what a character is like.	In plays, voice, body language, movement and gesture are considered during <b>characterisation</b> .	
dual narrative	A story that is told from two different perspectives.	Nought and Crosses is written in the <b>dual narrative</b> of Callum and Sephy.	
juxtaposition	A type of opposition between two ideas or objects used to highlight the difference between them.	The <b>juxtaposition</b> of life for the noughts and crosses is evident throughout the play	
proxemics	How close or near to each other the characters are on stage. This is used to communicate meaning	<b>Proxemics</b> can be used to show a character is scared of another character by having them stand far away.	
soliloquy	A speech in a play in which an actor speaks to himself or herself and to the audience, rather than to another actor.	Noughts and Crosses contains many <b>soliloquies</b> so that the audience can understand how characters are feeling.	
staging	The staging of the play is the choice of performance space for a play, usually decided by the playwright or director.	The <b>staging</b> in the play can include a spotlight on whichever character the audience should focus on.	
structure	The structure of a text refers to its shape as a whole. This can man the order of plot events.	The <b>structure</b> of a text is made up of It includes the exposition, rising action, climax and resolution.	
symbolism	An idea or shape that is used to represent something else. Symbolism is the use of symbols to represent something.	The suffering of noughts <b>symbolises</b> the suffering of black people due to racism.	
tension	A feeling that is produced in a situation when people are anxious and do not trust each other, and when there is a possibility of sudden violence or conflict.	There is <b>tension</b> when Callum joins the school for Crosses.	

### Y9 English | Nought and Crosses | Act 1 Quote Bank

### Use these quotes to revise for your main assessment. Think about the following questions

- 1. What is being said in the quote? What tone/emotion is it said in?
- 2. Which method/technique is being used? What is the impact?
- 3. What does this quote tell me about Noughts & Crosses?
- 4. Why might have Malorie Blackman used this? What is her message?

"You're in now. They accepted you <b>." –</b> Sephy	"Maybe we are in different worlds" - Callum	'They were legitimate targets' - Ryan
"Stop it! You're all behaving like animals!Worse than animals! Like blankers!" - Sephy	"No blankers in our school! No blankers in our school! No blankers in our school!" – Crowd	'My family's private beach' - Sephy
"I started watching people and there were so many differences they swamped the similarities" - Sephy	"Everyone knows they're all muggers and they hang around in gangs and knife people and listen to crap music"– Lola	'our run down hovel' - Callum
"We should be able to educate our own. Not wait for the Crosses to do it for us" – Meggie	"Callum, it's me. Sephy. I'm not your enemy" – Sephy	'He was with his dagger friend.' – Jude (his first line)
"All our lives criss-crossing but never really touching. A world full of strangers living with all that fear" – Sephy	'It's alright for them to use violence when they please, to keep us in poverty and bleed us dry. But when we fight back, they call us cowardly and barbaric.' - Ryan	'Long live the Liberation Militia!' - Jude

### Y9 English | Noughts and Crosses | Assessment Guide

## Explore how Malorie Blackman presents hatred in Scene 3.

#### Act 1 Scene 3

At the school gates.

Sephy: First day of school. I groaned at the thought. At least today would be different from the start of every other new term. Three noughts, including Callum, were starting at my school. I wanted to show him the playing fields and the swimming pool, the gym and music rooms, the dining hall and science labs. And I'd introduce him to all my friends. It was going to be wonderful, But as I approached the corner, shouting like an angry wave, they rolled towards me.

An angry Cross crowd – parents and students.

Crowd: No blankers in our school! No blankers in our school! No blankers in our school!

Mr Corsa: As the Headmaster of this school it is my legal duty to ask that you let the new students enter the school.

The crowd continues.

Crowd: No blankers in our school! No blankers in our school! No blankers in our school!

Sephy watches as Callum, Colin and Shania, all noughts, try to push their way through the crowd to get to the school entrance. Police try to push the crowd into two separate groups. Mr Corsa is in the other side of the crowd looking on. Shania is hut by a stone.

Protestor 1: One of them is hurt.

Protestor 2: A blanker's hurt.

Other protestors cheer. The struggle continues. Sephy gets through.

Sephy: Mr Corsa, we have to help that girl. She's hurt!

He doesn't move. Sephy addresses the crowd.

Sephy: Stop it! Just stop it!

Crowd: Blankers out! Blankers out!

Sephy: Stop it! You're all behaving like animals.

The crowd silences.

Sephy: Worse than animals! Like blankers!

Callum: [Aside] She didn't say that. She couldn't have. Not Sephy... I'm not a blanker. I may be a nought but I'm worth more than nothing. I'm not a blanker. A waste of time and space. A zero. A nothing.

### Step 1: Annotate the question

- Focus on key word <u>Underline</u> or Circle them.
- Look for the **key theme** that is the focus of the question.

### Step 2: Read the extract

• Bullet point your ideas about the **key theme** in the text.

### Step 3: Thesis Statement

• Summarise your ideas from your bullet points to detail your opinion of how the question focus is outlined in the text.

### Step 5: Paragraph Planning

- Number your bullet points
- Choose which quotes you will use to support each point

### Step 6: Writing

• Use your plan to begin writing with a layered analysis of quotes.

You will write your **practice assessment** answering this question.

For your **final assessment**, you will answer a question based on the whole of Act 1. The quote bank will be provided.

	M/riting a gue all utile all la array arraya la t
	Writing an analytical paragraph:
	Clear topic sentence: What is the writer presenting or character saying?
WHAT?	<ul> <li>How could I reuse the words in the question to give myself a topic sentence?</li> <li>Have I placed it? Locate which chapter/scene/section the quotation is from.</li> </ul>
	How does the writer convey/ present/ develop this?:
	<ul> <li>What tone is the quotation spoken in or narrated in? And why?</li> <li>Powerful words: Which words and phrases convey the most meaning?</li> </ul>
HOMS	<ul> <li>What different connotations do these words/ phrases have? What do they make you</li> </ul>
	imagine, think about or feel? Explore layers of meaning and nuanced interpretations
	• Language: Are there any other techniques the writer is using? What are their impact?
	Challenge: How do the meanings of words and techniques work together to create meaning? Explore layers of impact.
	<ul> <li>Challenge: Is it part of a wider method used by the writer? Is the writer crafting a</li> </ul>
	build-up or sequence of things e.g. verbs, motifs?
	Why does the writer write it?
<mark>MHX</mark> 5	<ul> <li>Consider context and impact: what attitudes are revealed?</li> </ul>
	• Is the writer trying to create shock or sympathy/ to expose or criticise/, to warn or to promote an attitude or feeling?
	Remember to link back to the key words of the question here.

### Y9 English | Analytical Writing | Annotated Exemplar

Malorie Blackman presents hatred in Scene 3 through the protesting of the Cross crowd when Callum and two other noughts are entering the Cross school. This is seen through the repetition of 'No blankers in our school!'. Firstly, the use of an exclamation mark here indicates the Crosses are shouting, perhaps in a threatening way, which displays their strong hatred for noughts. The repetition develops the idea they are speaking in a threatening way and attempting to intimidate the noughts into not entering the school. Moreover, the word 'blankers' is a derogatory term for noughts, deriving from the word 'blank'. The use of this word displays hatred as it implies that the Crosses view noughts as nothing, as people not worthy of kindness or respect. The term 'blankers' reflects our real society as it mirrors the use of the 'n' word, which is a slur directed towards black people and dates back to the slave trade. In doing so, Blackman makes it clear that this hatred must be condemned. Ultimately, Blackman presents hatred through vile and degrading language and clear discrimination.

I consistently link back to the question by using the word 'hatred'. This makes my argument <u>clear</u>.

I include a quote and identify which writing technique has been used.

I have layered my analysis by explaining the impact of the techniques/methods the writer has used.

I zoom in to the meaning of words in the quote and how it answers the question.

I link my quote to context and explore how this further creates meaning.

Challenge: I comment on the writers intention and link it back to the question.

#### Geography | Does the world have enough resources? | Knowledge Organiser Water is finite meaning we Ways to reduce water stress India has a growing population currently at over 1.4 billion 4 cannot make more but demand and now cannot provide the whole population with 3 clean drinking water. for water is increasing. Reasons for increase include: There are 3 major causes of this problem. 2. Increase in **Recycle** water Changing rainfall patterns – areas previously Stop wasting manufacturing used for farming now receive low rainfall DESALTNATION levels. Increased domestic use Water transfer Overuse of groundwater – leading it to run scheme Increased irrigation out in many areas. Polluted rivers – water no longer available Increased electricity for human use production Food insecurity usually impacts LICs more than HICs who can afford to import food and keep 5 food prices manageable for their populations. Food supply can be increased using many methods such as: Increased meat The choropleth map below shows the areas high production and low food risk. As a Year 9 Geographer, I know... Irrigation-Hydroponics-GM crops-1. What a natural resource is and Using nutrient rich By genetically modifying Waterina crops where concentrations of natural water to arow crops they can withstand allows more to resources can be found. droughts or be made crops in buildings arow in areas that 2. What water is used for globally in urban areas. more calorific would otherwise be and reasons why global water too dry. usage is increasing Problems with resource extraction in the Democratic 8 3. The three problems with water High risk Republic of Congo. Many children working in mines 4. Ways to reduce water stress. Communities have to move out of areas to Supply chain for a mobile phone 7. 5. Where food security impacts make space for mines. Mining (in LICs) Safety standards are very low in the mines Processing of raw materials (in LICs) 6. How we could increase food leading to accidents injuries and deaths. Manufacturing (in NEEs) Quality control (in HICs) Mining can lead to soil erosion and loss of 7. How are electronics are made. Distribution of products (in HICs) fertile land. Consumer buy the products (in HICs) 8. The issues relating to resource Miners' exposure to toxins can lead to health problems

use in India.

the most

supply

extraction

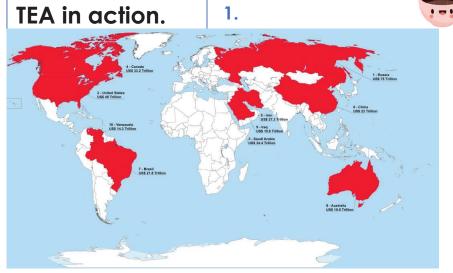
	Geography   Does the world have enough resources?   Topic Dictionary			
Image	Key word	Definition	In a sentence	
	agricultural use	Something that is used when farming.	Agricultural water use is the largest use of water globally.	
	domestic use	Something that is used in the home.	Water is <b>used domestically</b> for showering, cooking and flushing toilets.	
	finite	Having an end or limit	Water is <b>finite</b> this means that we cannot make new water. There is the same amount of water on Earth as when the dinosaurs walked the Earth.	
	food insecurity	Not having access to enough food, or food of an adequate quality, to meet one's basic needs.	<b>Food insecurity</b> is a serious problem affecting millions of people around the world, particularly in LICs.	
tit	genetically modified food	Created by changing the DNA of plants or animals to give them new traits, like resistance to pests or improved nutrition	Some people oppose <b>genetically modified</b> <b>foods</b> because they worry about potential health risks and environmental impacts.	
	groundwater	Water held underground in the soil or within rocks. An underground store of water is called an aquifer.	Historically, populations in India heavily relied on <b>groundwater r</b> esources for irrigation	
	hydroponics	A method of growing plants without soil, using nutrient-rich water solutions.	One benefit of <b>hydroponics</b> is that it allows for year-round crop production, regardless of climate or season.	
	industrial use	Something that is used in businesses, factories or schools.	Industrial water usage is greater in HICs than in LICs.	
A A A A A A A A A A A A A A A A A A A	irrigation	The practice of supplying water to crops and plants.	Irrigation helps farmers grow crops even in dry climates, ensuring a reliable food supply.	
	natural resource	Materials from the Earth that are used to support life and meet people's needs.	Chad has valuable <b>natural resources</b> like oil and cotton.	
	resource extraction	Resource extraction is the process of taking out usable materials from the Earth.	One example of <b>resource extraction</b> is drilling for oil.	
	supply chain	A supply chain includes every step that is involved in getting a finished product or service to the customer.	The <b>supply chain</b> of a mobile phone involves a complex network of countries, companies, and resources, from mining rare earth minerals to assembling the final product.	
ζ <sup>×</sup> γ γ ()	water stress	When there is a situation in which the water resources in a region or country are insufficient for its needs.	Water stress occurs when increasing populations and climate change put pressure on water resources.	

### Geography | Does the world have enough resources? | Skills Guide

### Describing patterns on a map

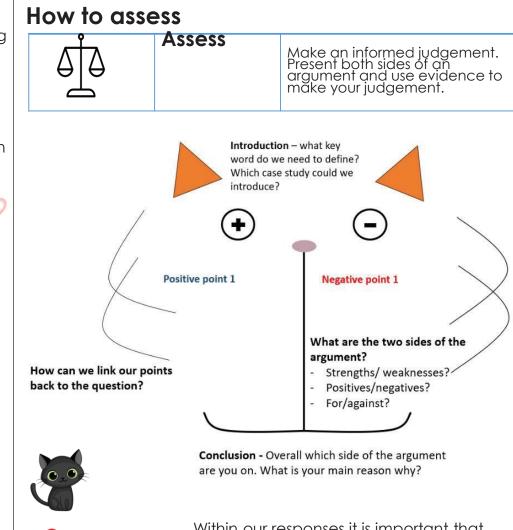
If you are asked to describe a pattern on a map the following structure will help you. Remember if you are describing a pattern, you do not need to say why it has happened - just what you see.

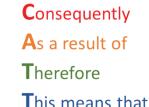
**Trend** – what this the overall pattern of the map. Examples – pick out examples that support the overall pattern Anomalies – is there any part of the data that doesn't fit the overall trend



Describe the change in the amount of carbon dioxide in the atmosphere shown in figure 1.

Overall, the map shows that the majority of countries with the most resources are HICs. Russia has the largest amount of natural resources with the total value being. However, a notable exception is Iraq who have the 9th highest value of natural resources despite being an LIC.





Within our responses it is important that we expand our points in order to show our geographical ability to explain our points.

**CATT statements** will help us do this.

This means that

## Geography | Is the World Equal? | Knowledge Organiser

2.

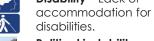
What are the barriers to equal education?



### **Geographic Location -**Students in rural areas may



have limited access. **Disability –** Lack of



Political instability and **conflict** – Schools may be damaged or closed.



Language – Students may struggle to learn second languages.



Cultural and religious **beliefs** – In some cultures girls are discouraged from attending school.

Socio-economic factors -Low-income families can lack access to opportunities.

Factors affecting health inequality.

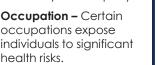




**Ethnicity** – Ethnic minorities often face disparities in health care.

4

Gender- Women and men have different health needs that are not always met equally.



Education – Education plays a crucial role in promoting health and well-being

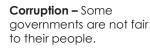
Socio-economic status -Lower socioeconomic status is a significant driver of health inequality

Why are some countries HIC's and some LIC's ?





Globalisation- The befits of globalisation are not felt equally.



**Conflict** – War leads to destruction of property and social disruption.

**Discrimination-** When one group is discriminated, they are unable to participate fully in society.

#### Factors affecting gender inequality. 5



GOVERNMENT

Culture - Cultural norms and traditions can deeply embed gender roles, often limiting opportunities for women

Socio-economic factors In developing countries, women often bear the brunt of poverty, as they are more likely to be engaged in low-paying, informal work. always



met equally.

Discriminatory laws and policies can limit women's rights and opportunities.







Factors influencing ethnic inequality - justice system, education, media, and employment patterns.



In May 2021, the averaae house price in the North East was £143,129, while the average price in the South East was £350.016.

Countries impacted by climate 6 change are not always included in climate negotiations.



As a Year 9 Geographer, I know... 1. What the different barriers are for children to access education. 2. Why some countries are more developed than others. 3. What a supply chain is and how trade can influence global inequality. 4. Why not everyone receives the same health care. 5. Why men and women are not equal. 6. How the impacts of climate

change are not felt equally.

	Geography   Is the World Equal ?   Topic Dictionary		
Image	Key word	Definition	In a sentence
	climate inequality	The unequal distribution of the impacts of climate change, with marginalized communities often experiencing greater harm.	<b>Climate inequality</b> means that some places are more affected by climate change than others, like those that are poor or have fewer resources.
	colonisation	The process of one nation establishing control over another, often through settlement and exploitation of resources.	Some countries took over other countries, called <b>colonisation</b> , and controlled their people and resources.
	equality	The state of being equal, especially in status, rights, and opportunities.	It's important that everyone is treated <b>equally</b> , no matter who they are.
	ethnicity	A person's identification with or membership in a particular ethnic group, often based on shared cultural traditions or ancestry.	<b>Ethnicity</b> is about where your family comes from and the culture they share.
	GDP per capita	The total value of goods and services produced within a country, divided by its population. It's a measure of average income per person.	When a country is rich, it has a high <b>GDP per capita</b> .
Ø	gender equality	The state of equal opportunity for all genders, regardless of their sex or gender identity.	<b>Gender equality</b> means that boys and girls should have the same opportunities.
Ŵ	health inequality	Unequal access to healthcare services and resources, often resulting in disparities in health outcomes across different groups of people.	Health inequality means that some people don't have the same access to healthcare as others.
÷.*	inequality	The difference between levels of quality of life, income, health and education.	The world is <b>unequal:</b> the world's richest 1% have more than twice as much wealth as 6.9 Billion people.
	nationality	Legal membership in a specific country.	Your <b>nationality</b> is the country you belong to and where you're a citizen.
	supply chain	Network of organizations involved in producing and delivering a product or service, from raw materials to the final consumer.	The <b>supply chain</b> is a long journey that things take to get from where they're made to where we buy them.
¥	sustainable	Meeting the needs of current generations without compromising the needs of future generations	Solar energy is <b>sustainable</b> because it reduces air pollution.
	trade	The exchange of goods and services, often between countries.	<b>Trade</b> is when countries buy and sell things with each other.

### Geography | Is the World Equal ? | Skills Guide

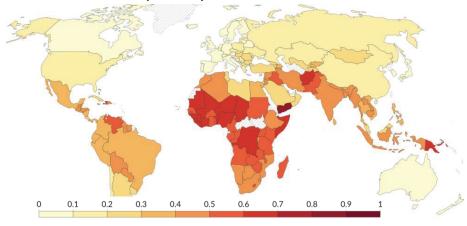
## Interpreting maps

If you are asked to explain a pattern on a map the following structure will help you.

Trend – what this the overall pattern of the map. **E**xamples – pick out examples that support the overall pattern Anomalies – is there any part of the data that doesn't fit the overall trend

# TEA in action.

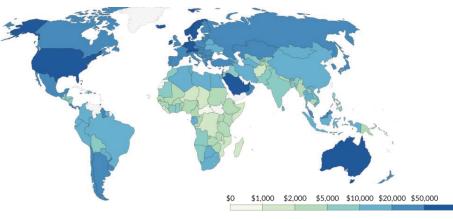
## Gender inequality index 2022



Describe the map showing the difference in gender equality around the globe. (3)

Overall, the map shows that in the global south there is a greater inequality between men and women. The continent of Europe and North America both have a GII between 0.1 and 0.3 where as Africa and South America have a GII between 0.3 and 1. However, Australia which is in the global south has a GII between 0 and 0.1.

# GDP per capita 2023



#### Describe the map showing the difference in GDP per capita around the globe. (3)

Overall, the map shows that countries that do not have access to a coastline have a lower GDP per capita than those that do. For example, Countries in central Africa have a GDP per capita between \$0 and \$2000. However, There are some countries in central Europe that have a high GDP per capita such as Switzerland.

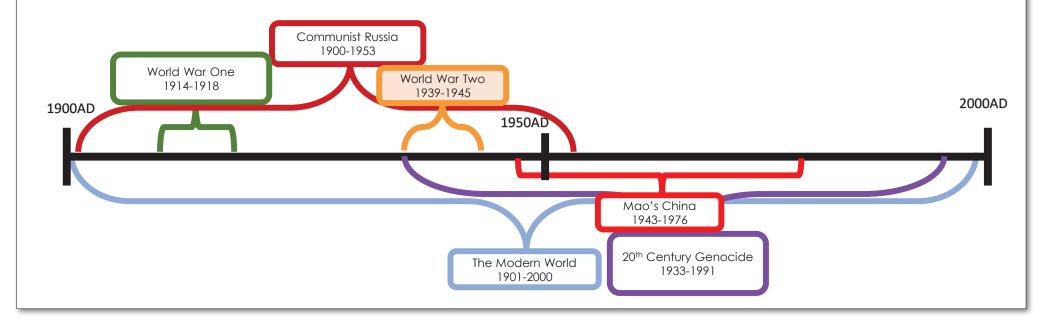
## Understanding Scale.

When writing is important to consider geographical scale – local. regional and global.

Within London there is economic inequality about inequality it with the top 10% of people earning more than 60% of income. In the Uk there is economic inequality between the North and South with people in the North earning 10% less than those doing the same job in the South. Global there is economic inequality with the richest 10% of people earning 50% of global income.

## History | What was the turning point of World War Two? | Topic Dictionary

Image	Key Word	Definition	In a sentence
5 100 100 100 100 100 100 100 100 100 10	Appeasement	The policy employed by Neville Chamberlain and Britain to give Hitler what he wanted to keep peace.	Britain deployed a Policy of <b>Appeasement</b> to keep peace
	allies	The term referring to Britain, France, Italy and Russia as a united force during WW2	The <b>Allies</b> declared victory in Europe on the 8 <sup>th</sup> of May 1945
<b>Field</b>	atomic	Weapons of mass destruction that involve	The bomb dropped on Hiroshima and Nagasaki was an <b>atomic</b> bomb
×	Axis	The term referring to Germany, Italy and Japan as a united force during WW2	The <b>Axis</b> powers were defeated at the Battle of Stalingrad
<b>Ľ</b>	evacuation	The process of moving people from a dangerous place, to somewhere safe.	We were forced to <b>evacuate</b> London because of the war
A FREE	invasion	When one country attempts to take over another country by using its armed forces.	In 1939, Germany carried out an <b>invasion</b> of Poland



### History | What was the turning point of World War Two? | Topic Overview

#### Appeasement

Hitler was gradually allowed to take more and more land. British Prime Minister **Neville Chamberlain** was afraid of **Hitler** and therefore, let him take. Starting with the Rhineland (which was supposed to be

free of German military) Hitler then invades Austria in 1938, Czechoslovakia and the Sudetenland in 1939 1<sup>st</sup> September 1939: Germany sends 1.25 million troops into Poland. This is the last straw. Britain declares war on the 3<sup>rd</sup> of September



#### WW2 and Britain

**Dunkirk (operation Dynamo)**, 29<sup>th</sup> May-3<sup>rd</sup> June 1941: The British expeditionary force (338,000 men) is evacuated from the small beach of Dunkirk in northern France. **Winston** 

**Churchill** calls it Britain's "finest hour". Around 900 civilian ships were involved. However, some argue that Dunkirk was a full-scale retreat and therefore a disaster.

100,000 Britons were left behind and became prisoners of war



**Battle of Britain:** France surrenders, leaving Britain to defend against Hitler's planned invasion (operation Sealion). Hitler's plan was to use his Luftwaffe to bomb Britain until they surrendered(Airforce) British Airforce of Hurricanes and Spitfires fight against the Luftwaffe in the skies over Britain. Britain had the advantage of radar and were building planes (hurricanes and spitfires) faster than Germany could shoot them down. Victory was achieved in September 1940

#### As a Year 9 Historian I know ...

1.	The policy of appeasement.
3.	Whether Dunkirk was success or a failure.
3.	Why Britain won the Battle of Britain.
4.	How why the USA wa

- 5. Whether Stalingrad
- When a stanlighted was a turning points.
   How WW2 came to an
- end.

7. What life was like for civilians.

Stalingrad, August 1942-February 1943: In June 1941, having failed to invade Britain, Hitler, invades Russia. Although initially successful, Stalin launches operation Uranus, a counterattack against the German invaders. Germany

had overreached however, its men start to run out of food, warm clothes and



weapons. Stalingrad was Germany's last stand in Russia. Russian forces held firm and eventually, German general Von Paulus surrendered. Russian sacrifices in the war were catastrophic. An estimated 20 million Russians died fighting in WW2. This is the start of the end for Germany...

#### Pearl Harbour, 7th December 1941:



The bombing of Pearl Harbour, a small US naval base in the pacific, killing 1,500 US sailors and soldiers. Japan did this so that the USA would no longer be able to stop Japan from having total control in the pacific. Additionally, the US also imposed a

trade embargo on Japan. However, this backfires as **President Roosevelt**, would decide to join WW2 following Pearl harbour, a key turning point in the Axis powers' eventual defeat

**How did D-Day begin to end the war in Europe**, 6<sup>th</sup> June 1944: Having been planned since 1943, the allies launch a full invasion of French occupied Germany., called operation Overlord. 11,000 planes

6,000 ships and 156,000 troops bombard the Normandy beaches to start to take back control of France. 4,000 allied troops lost their lives. From here, the allies would push on into France and eventually, into Germany itself



6

#### How did Hiroshima and Nagasaki end the war in the Pacific?



3

Although nearing defeat, Japan proved to be incredibly resilient. President Truman, believing that the Japanese would never surrender, decided to deploy the Atomic bomb, developed by Robert J Oppenheimer, on Japan to force them to surrender. Within a minute of the Nagasaki explosion 70,000 people were dead. Japan was forced to surrender on the 12<sup>th</sup> August 1945.

The Nuremberg trials: In 1945 and 1946, the leading Nazis were put on trial for their crimes. Most famously, Hermann Goring, Hitler's right-hand man, committed suicide before he was executed. Albert Sper, who had overseen war production was sentenced to 20 years and Rudolph Hess, **6** Hitler's deputy, served a life sentence.



The Home front: this refers to the people back home in Britain. Defence of the Realm Act, (August 1914) gave the government more control over people's lives. For example, the government was able to take control of any factory to help produce ammunition and weapons. The Blitz from September 1940 to May 1940 meant that civilians were forced to seek shelter as bombs reigned down. A third of London was destroyed. Women, as they did in WW1, stepped up and helped run factories, ensuring the war effort did not fail.

### **History Interpretations Skills Guide**

An interpretation is **anything written after an event happened**. This could be a book published by a historian, a film, a painting, podcast, the list goes on. Two examples are below...

### How and why do historians' interpretations of Dunkirk differ?

Interpretation A: What you Need to Know about the Dunkirk Evacuations, Imperial war museum website (2024)

"Churchill and his advisers had expected that it would be possible to rescue only 20,000 to 30,000 men, but in all 338,000 troops were rescued from Dunkirk...The successful evacuation was a great boost to civilian morale and created the 'Dunkirk spirit' which helped Britain to fight on in the summer of 1940."

# 1) How do their views differ? This requires us to look at the content and understand the tone

Interpretation A views Dunkirk as a success, whilst B believes that it was a disaster and that it only appears to be a success because of the way newspapers at the time made it appear.

# 2) How do we know this? We need to find quotes from the source that show the difference

Interpretation A states that "338,000 troops were from Dunkirk" when it was believed at most 30,000 would be. It also states that it boosted morale back home, suggesting Dunkirk was a success. Interpretation B however states that it only appears to be a victory because of the "Dunkirk myth" created by the newspapers and in reality, was a "military disaster". Interpretation B: Dunkirk's 60<sup>th</sup> anniversary broadcast, BBC news report (2000)

"Dunkirk was a military disaster-and took the British public by surprise... but almost at once, victory was being plucked from defeat and the newspapers began to create the Dunkirk myth...the government encouraged this myth to flourish-and allowed nothing to be published which might damage morale...Dunkirk was a military defeat but a propaganda victory"

# 3) Why do their views differ? Here, we need to think about purpose of the interpretation

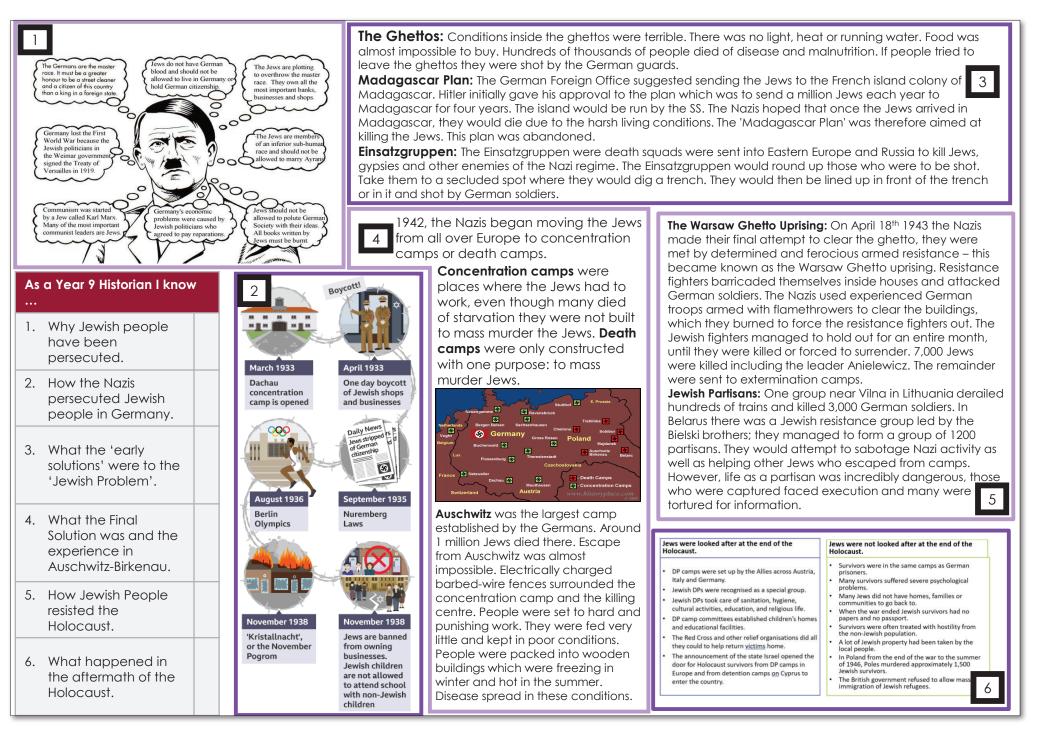
They differ because they have researched different elements of Dunkirk. Interpretation A has researched the whole of Dunkirk and may have looked at more positive sources. Whereas interpretation B researched the role of the media at Dunkirk and how Dunkirk was portrayed and would therefore have looked into more negative sources.

#### 4) Which one do YOU agree with more and why? There is not right or wrong answer here, it's all about how you back your points up with your own knowledge

Overall, I agree more with interpretation A as following Dunkirk, the allies' spirits were lifted. This can be seen in their defence against Hitler's Luftwaffe in the Battle of Britain and their eventual rallying to defeat the Nazis following operation Overlord in June 1944. Were it not for Dunkirk, Britain and the allies might have lost the war.

# History | The Holocaust | Topic Dictionary

Image	Key Word	Definition	In a sentence
×	Antisemitism	The prejudice, discrimination and racism towards Jewish People.	"Antisemitism has been a constant problem in Europe since the middle ages."
	genocide	Genocide is the intentional mass killing of a specific group of people because of a specific characteristic or feature of their identity.	"The murder of 6 million Jewish people and millions of others in World War 2 was a genocide."
	Ghetto	A specific, separate, area within a city of particularly low quality used to separate Jewish people from society under the Nazis.	"The Warsaw Ghetto was one of the worst Ghettos in the Third Reich."
	Holocaust	The genocide of over 6 million Jewish people between 1933- 1945 as part of the Nazi Party's 'Final Solution'.	"The genocide of 6 million Jewish people during World War 2 is called the Holocaust."
<u>eriye</u>	Liberation	The action of setting someone free from imprisonment, slavery, or oppression; release.	"There was a liberation of many people from their chains."
	Resistance	The refusal to accept, comply or 'go-along' with something.	"There were many instances of Jewish Resistance against the Holocaust."
1900AD	World War One 1914-1918	Communist Russia 1900-1953 World War Two 1939-1945 Mao's China 1943-1976 1950AD 20 <sup>th</sup> Century Genocic 1933-1991 The Modern World 1901-2000	2000A



# History Source Skills Guide

In History you may get shown several sources and be asked 'how useful' they are for an enquiry into a specific environment. The following steps help us to judge this:

Content: What does the source say – or show? What does it tell you about the event or person? Caption: Where does the source come from (provenance)? Context: Is the source accurate? Does it match what you already know? Conclude: Reach a judgement on how useful the sources are.

The content of the source suggests that in Auschwitz-Birkenau 'every last remnant of respect' was taken from the inmates. This is useful as it shows us how the inmates were treated by the Nazis.

This quote from the extract is useful because it is accurate. I know that when people arrived at the camps they were tattooed with a number which would be used instead of their name – taking away people's identities.

The content of the source shows that the inmates at Auschwitz-Birkenau were 'dehumanised'. This is useful as it highlights how severe the treatment of the inmates was.

This quote from the extract is useful because it is accurate. I know that inmates weren't allowed to have showers or even use the toilet. The inmates were also not given appropriate clothing for the harsh winters in Poland.

This makes the source useful as it was written by a survivor who experienced the conditions at Auschwitz-Birkenau firsthand. The source is also useful as it is an autobiography written to inform people about Greta Turgel's experience during the Holocaust. This is useful as it means that the source is likely to accurate as the author would want the audience to understand the true horrors of the Holocaust.

Overall, this source is useful as provides an insight into the experiences of inmates at concentration camps during the Holocaust.

This comes from the autobiographical book 'I Light a Candle' written by Gena Turgel, a Polish woman who survived Auschwitz-Birkenau. During the Holocaust, her three brothers and two sisters were killed.

At Auschwitz-Birkenau, every last remnant of respect and dignity was squeezed out of us. In our loose, insect-ridden clothing and with our hair cropped or shaved, we felt completely dehumanised.

# IT | Python | Topic Dictionary

Keyword	Definition	In a sentence	
Algorithms	A set of commands used to perform a particular task	l use an <b>algorithm</b> to bake a cake.	
Arguments	An argument is a value that goes between the brackets after the name of a function.	In print("Hello world"), the <b>argument</b> is "Hello world", because that is the value inside the brackets.	
Bugs	Bugs are errors in the code.	When a program has <b>bugs</b> , it may not be able to run and instead give an error.	
		Examples of <b>camel case</b> are camelCase, timeToTeleport, aLongerCamelCaseName.	
Command	ommandAn instruction that tells the computer to perform a certain action.print("Hello") is a comma		
Comments	A comment is a text annotation in the code that helps make code more readable. Comments are ignored by the computer.	In Python you can start a <b>comment</b> using the # symbol.	
Computer ProgramA set of instructions that tell the computer what to do. Normally read and performed from top to bottom.You will be writing computer program		You will be writing <b>computer programs</b> in Python.	
		A <b>console</b> is where the user will type their response to a prompt.	
Debugging	Debugging         Debugging is the process of looking for bugs and getting rid of them         Programmers spend a lot of time densure their code works as explanations.		
Error messages	An error message is a message that indicates there is an error in your code.	Python will often send <b>error messages</b> to the <b>console</b> when there is a bug.	
For loop	An instruction that allows code to be repeated	Programmers use a <b>for loop</b> to repeat actions.	

# IT | Python | Topic Dictionary

Keyword	Definition	In a sentence	
Functions	A <b>function</b> is a command that performs a specific action when called.	<pre>print(), and input() are both functions.</pre>	
Indentation errors	An indent is leaving space at the start of the line, and this error happens when this has been done incorrectly.	If you forget to indent code beneath an if statement, you will get an <b>indentation error</b> .	
Iteration	Repeating instructions using loops.	<b>Iterations</b> allows algorithms to be written with fewer lines of code.	
Keyword	A word that has already been reserved in Python to be used for something.	In Python, you cannot name a variable "and" because this is a Python <b>keyword</b> .	
Logic errors	An error that will allow the program to run, but it won't do what the programmer expects it to do.	A <b>logic error</b> will happen if the program doesn't quite do what it should do but still runs.	
Maintainability	How easy something is to look after and keep using over time.	The purpose of <b>maintainability</b> is to ensure that, over time, a program can be easily maintained.	
Name errors	Misspelling a name including forgetting to use a capital letter.	Typing 'pront' instead of 'print' is a <b>name error</b> .	
Python	A programming language used to develop software	<b>Python</b> language is used by professional developers to create games.	
Strings	A string is a series of characters held between quotation marks " " or	"hello" is a <b>string</b> .	
Syntax	The set of rules that define the correct combination of symbols and characters in a programming language.	In Python, one <b>syntax</b> rule is to use () after print.	
Syntax Errors	A syntax error is when the program doesn't work because of an error with the rules of the code.	Missing quote marks can cause a <b>syntax error</b> .	
Whitespace	The spaces/indents that need to be left at the start of certain lines of code.	Code that is being repeated inside a loop, will need to use <b>whitespace</b> .	

# IT | Python | Knowledge Organiser

Turinglab login details	• Turinglab https://www.turinglab.co.uk	Core Strings -
Username		
Email	My Content	A string is a sequence of characters – such as
Password	Farmbot Course In Progress Continue	a, b, c etc - which are surrounded either by single ' or double " quotation marks.
move_forward() — harves	t_crop()	"hello world" is exactly the same as 'hello world'. However we can't mix them
	<pre>crop() will harvest whichever crop of the Farmbot and store it in the</pre>	- this would not be considered as a string "hello world".
currently pointing in. Farmbot	inventory.	return_home()
ship_crops() - prep	oare_soil() -	'return_home()` will instruct the Farmbot to
	are_soil() will prepare the soil	find the fastest path back to it's homeplate.
of the inventory it has collected.	planting, converting grass into and.	plant()
turn() - For	Loops 🗕	plant("tomato") will plant the crop passed
turn("left") will allow the farmbot to A fa	r loop is used for iterating over a	in as an argument onto soil ready for planting.
	ence such as a list, a string, a onary etc.	Plants include: aubergine, tomato, potato, turnip and pumpkin.

# IT | Python | Knowledge Organiser

#### Programming with Python

Ele Edit Format Bun Options Windows Help #Baseword Checker

print("Welcome to PGO Security Systems")

password = input("Enter your password: ")

- if password == "abcd1234": print("Access Granted")
- print("Access Denied")

input("Press ENTER to exit the program")

#### Python's Development Environment

Called IDLE – Integrated Development Environment

#### Two Modes:

Interactive Mode lets you see your results as you type them.

Script Mode lets you save your program and run it again later.

#### Writing error-free code

When writing **programs**, **code** should be as legible and error free as possible. **Debugging** helps keep **code** free of **errors** and documenting helps keep **code** clear enough to read.

#### Syntax errors

Syntax is the spelling and grammar of a programming language. In programming, a syntax error occurs when:

- there is a spelling mistake.
- there is a grammatical mistake.

#### Data Types

String - holds alphanumeric data as text Integer - holds whole numbers Float - holds numbers with a decimal point Boolean - holds either 'True' or 'False'

int()

#### Defining Variable Data Types

Python automatically assigns a data type to a variable. You can override this to manually define or change the data type using:

str() ,

or float()

#### Selection

Ln: 1 Colt 0

When designing **programs**, there are often points where a **decision** must be made. This **decision** is known as **selection** and is implemented in **programming** using **IF statements**.

Meaning	Example	Evaluates to
equal to	7==7	True
not equal to	6!=7	True
Greater than	7>6	True
Less than	5<8	True
Greater than or equal to	6>=8	False
Less than or equal to	7<=7	True
	equal to not equal to Greater than Less than Greater than or equal to	equal to     7==7       not equal to     6!=7       Greater than     7>6       Less than     5<8

#### Iteration

Algorithms consist of steps that are carried out (performed) one after another. Sometimes an algorithm needs to repeat certain steps until told to stop or until a particular condition has been met.

Iteration is the process of repeating steps.

#### Variables

A variable is a location in memory in which you can temporarily store text or numbers. It is used like an empty box or the Memory function on a calculator. You can choose a name for the box (the "variable name") and change its contents in your program.

#### Using a Variable (firstname)

print ("What is your name?")
firstname = input()
print ("Hello,",firstname)

Variable

#### Functions

**Functions** are special keywords that do a specific job. **Functions** appear in purple.

print() and input() are examples of functions

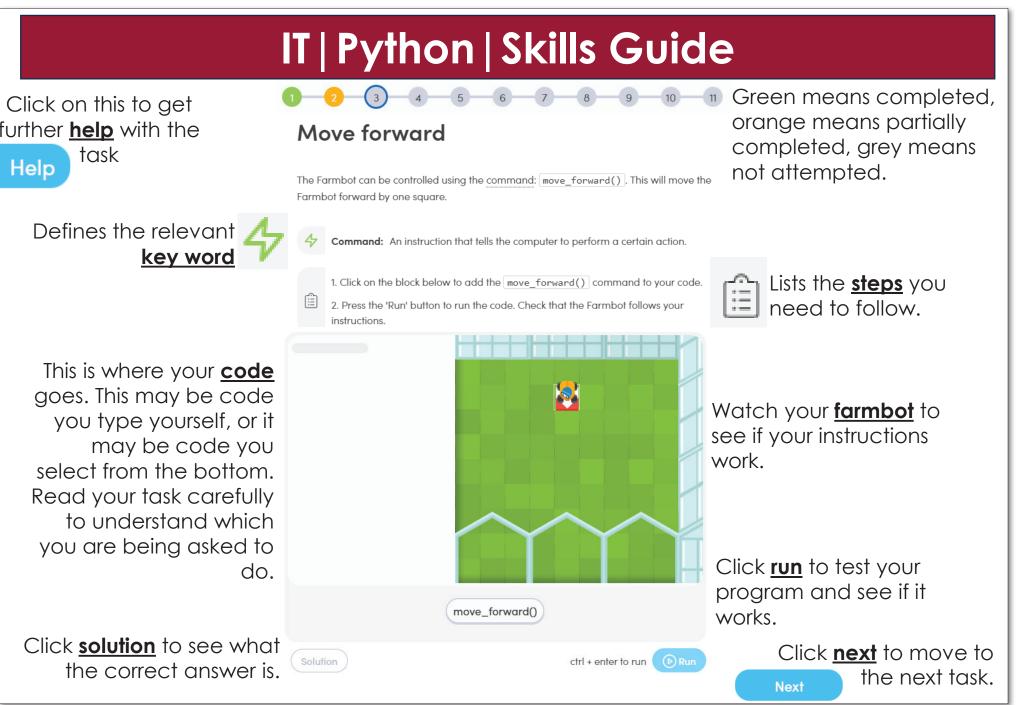
print	("What is	your	name?"
firstr	name = inp	ut()	
print	("Hello,"	,first	tname)

### Adding Comments

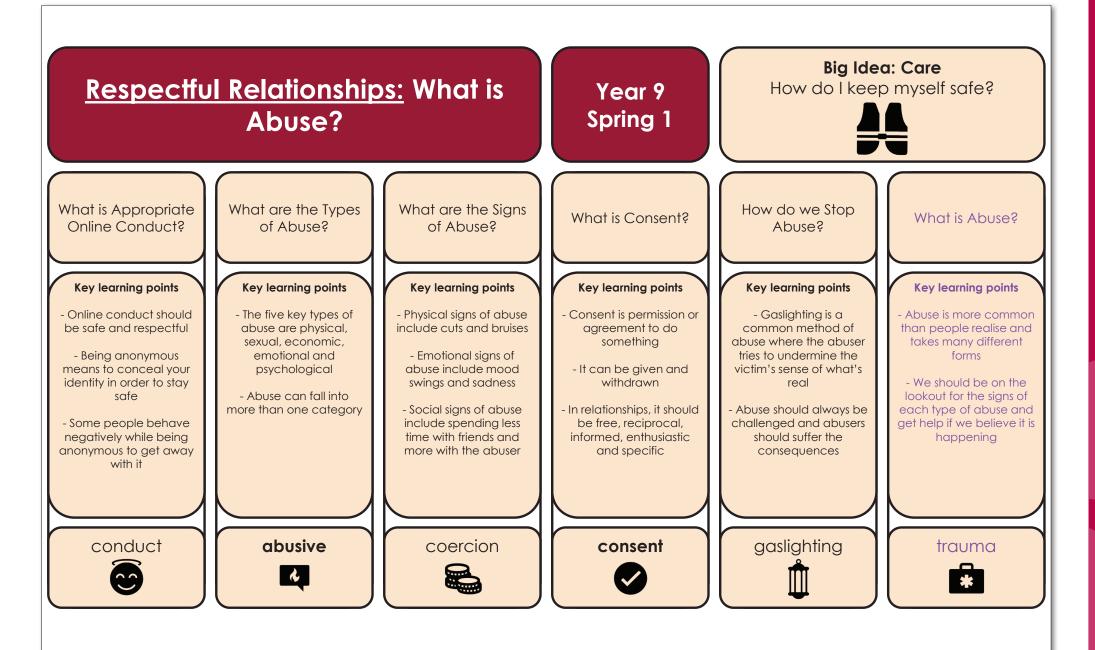
**Comments** are useful to help understand your **code.** They will not affect the way a **program** runs. **Comments** appear in red and have a

#### preceding # symbol.

#firstname is a variable
print ("What is your name?")
firstname = input()
print ("Hello,",firstname)



Lifeology



	Lifeology   <u>Respectful Relationships:</u> What is Abuse?   Topic Dictionary		
Image	<u>Word*</u>	Definition	In a sentence
0	conduct	The way someone behaves.	St Mark's Academy expects you to have excellent <b>conduct</b> at all times.
R	abusive	Behaving in a cruel or violent way towards other people.	The footballer was suspended from his team for leaving the pitch early and shouting <b>abusive</b> language at the referee.
	coercion	Persuading someone forcefully to do something they do not want to do.	Bullies often use <b>coercion</b> to get their way by threatening people with physical violence.
	consent	To give permission for something to happen.	I gave <b>consent</b> to the student leaving the classroom when they showed me their medical pass.
Û	gaslighting	Trying to undermine someone's ability to determine what's real or true.	If it works, <b>gaslighting</b> can be extremely damaging for the victim because they don't know what's real anymore.
*	trauma	A physical or mental wound that takes a long time to heal, and sometimes never does.	People can suffer <b>trauma</b> in their childhood and carry it with them for the rest of their lives.
		*Key Lifeology words are in <b>bold</b>	

# Skills Guide: Lifeology Assessments

This is your chance to show off **as much of your knowledge as possible** from the **last five lessons**.

- When the teacher instructs you, use 10 minutes to fill in the planning worksheet. This
  is your chance to look back through your book and gather all the right answers. The
  sheet is for you to refer to during your assessment, so you don't need to use full
  sentences. The work only has to make sense to you! Look back at your last
  assessment and check the feedback here!
- Complete the assessment. You will have 15 minutes to produce a piece of writing to answer the question you've been studying for the last five weeks. Write like you're in an English lesson - full sentences, proper spelling and grammar, and paragraphs. Make sure to mention as much as you can from your planning sheet. The order you mention it in doesn't matter, so long as it's all there.
- Use a green pen to self-assess your work. Compare the assessment you just did with the success criteria on the feedback sheet. Remember to tick your work wherever you're awarding a mark!

# <u>As a Year 9 Lifeology</u> <u>Student, I know...</u>

#### By the end of Spring 1

1. To stay safe online, we should avoid putting our personal information out in a public forum.

2. Abuse can fall into any number of categories, including physical, sexual, economic, emotional and psychological.

3. There are many different signs of abuse to be aware of, which can vary between the different types of abuse.

4. Consent is permission or agreement to do something, and can be given or withdrawn at any time.

5. Gaslighting is a form of abuse in which the abuser tries to undermine the victim's sense of what is real.

6. Abuse is far more common than we may realise, so it's important to be aware of the signs and how we can help.

Lifeology



<u>Image</u>	<u>Word*</u>	Definition	In a sentence
	risk	Something that can go wrong.	Not completing your homework on time means taking a <b>risk</b> that you'll get a detention!
	belonging	A feeling that you are a part of something that's bigger than just you.	Supporting a football team is a common way for people to get a feeling of <b>belonging</b> in their lives.
ส์	vulnerable	More easy to harm or control than the average person.	Every time you tell someone a secret, you become more <b>vulnerable</b> to that secret getting out.
<b>^</b>	grooming	The process of getting someone to trust you, so you can take advantage of them.	The problem is that people can be tricked or manipulated into doing bad things through <b>grooming</b>
120	FGM	An operation where the external female genitals are deliberately cut, injured or changed with no medical reason.	We should all be aware of the warning signs that someone we know is at risk of <b>FGM</b> , or has had it done to them already.
*	manipulate	To control someone's actions or emotions for your own gain.	Abusers will often try to <b>manipulate</b> young people to get them to take part in illegal activity.
		*Key Lifeology words are in <b>bold</b>	

# Skills Guide: Lifeology Assessments

This is your chance to show off **as much of your knowledge as possible** from the **last five lessons**.

- When the teacher instructs you, use 10 minutes to fill in the planning worksheet. This
  is your chance to look back through your book and gather all the right answers. The
  sheet is for you to refer to during your assessment, so you don't need to use full
  sentences. The work only has to make sense to you! Look back at your last
  assessment and check the feedback here!
- Complete the assessment. You will have 15 minutes to produce a piece of writing to answer the question you've been studying for the last five weeks. Write like you're in an English lesson - full sentences, proper spelling and grammar, and paragraphs. Make sure to mention as much as you can from your planning sheet. The order you mention it in doesn't matter, so long as it's all there.
- Use a green pen to self-assess your work. Compare the assessment you just did with the success criteria on the feedback sheet. Remember to tick your work wherever you're awarding a mark!

# <u>As a Year 9 Lifeology</u> <u>Student, I know...</u>

#### By the end of Spring 2

1. A risk is a chance that something might go wrong, and although risk is natural, it can have dangerous consequences.

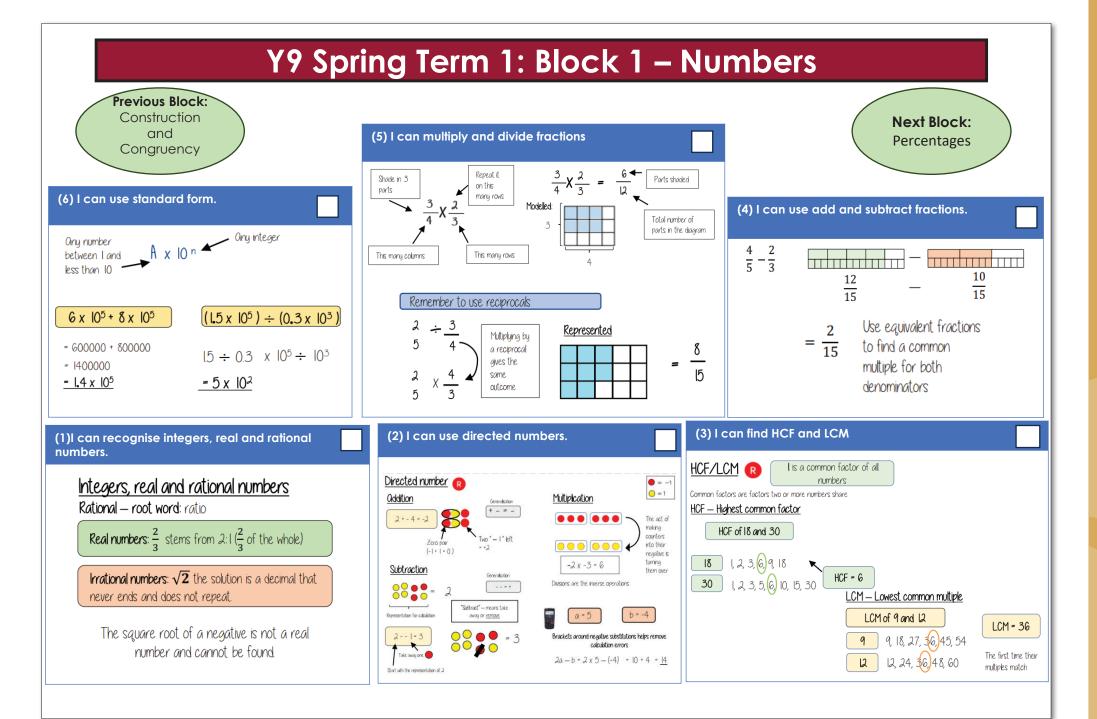
2. People join gangs to feel a sense of belonging, but face a higher risk of physical harm and time in prison.

3. County Lines refers to when gangs expand into smaller communities, often exploiting young people to do so.

4. Grooming is when someone gets another person to trust them so they can take advantage of them.

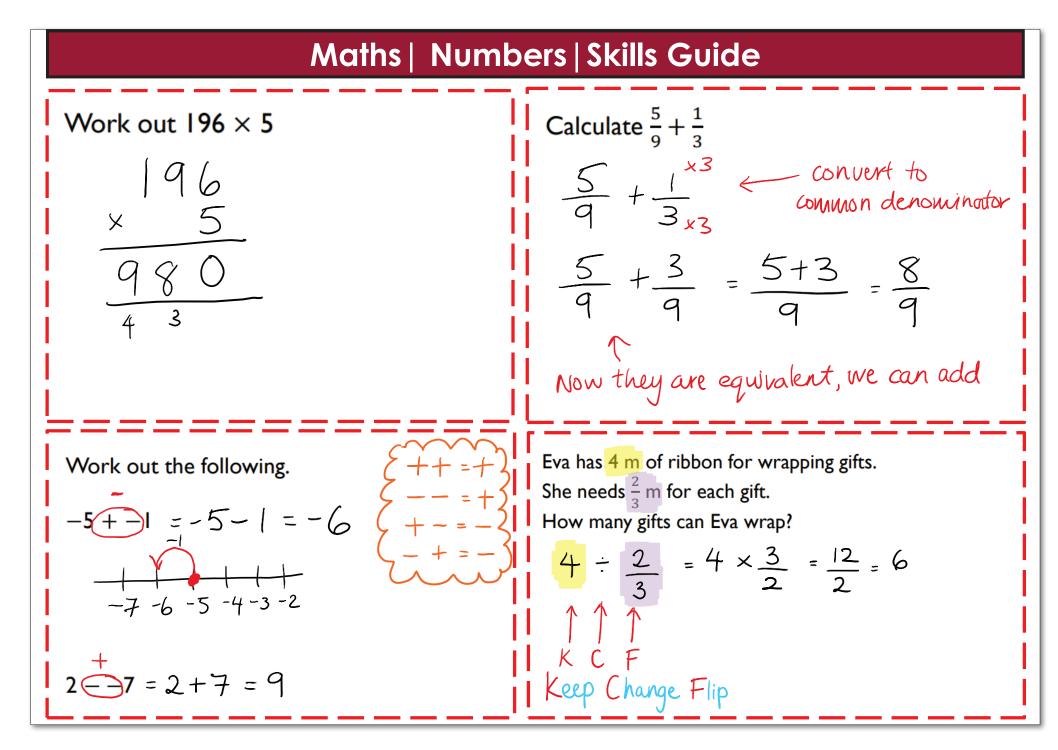
5. Female genital mutilation is illegal, and we should call the police if we suspect that someone has been a victim of it.

6. We need to understand what the key risks in our community are, so that we can work together in order to combat them.

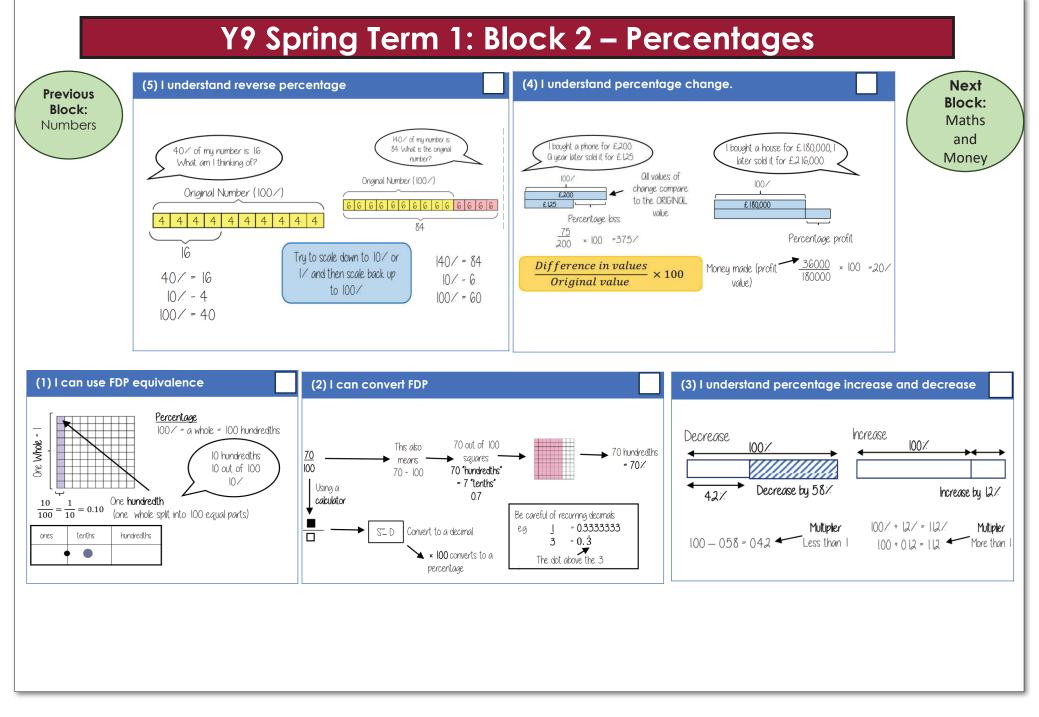


# Maths | Numbers | Topic Dictionary

Key Word	Definition	In a sentence
factor	A positive integer that divides exactly into another positive integer.	The number 3 is a <b>factor</b> of 15 because it divides evenly into 15.
	A whole number.	An <b>integer</b> can be a positive number, a negative number, or zero, but it cannot be a fraction or decimal.
irrational number	A number that cannot be made by dividing two integers.	The square root of 2 is an <b>irrational number</b> because it cannot be expressed as a simple fraction.
multiple	The result of multiplying a number by a positive integer.	The number 24 is a <b>multiple</b> of 6 because it can be obtained by multiplying 6 by 4.
surd	A root that cannot be written as an integer.	The cube root of 7 is a <b>surd</b> because it cannot be simplified into a rational number.
rational number	A number that can be made by dividing two integers.	The number 8 is a <b>rational number</b> because it can be expressed as a ratio of two integers.
real number	All positive numbers including decimals and fractions.	Every point on the number line represents a <b>real number</b> , whether it is positive, negative or zero.



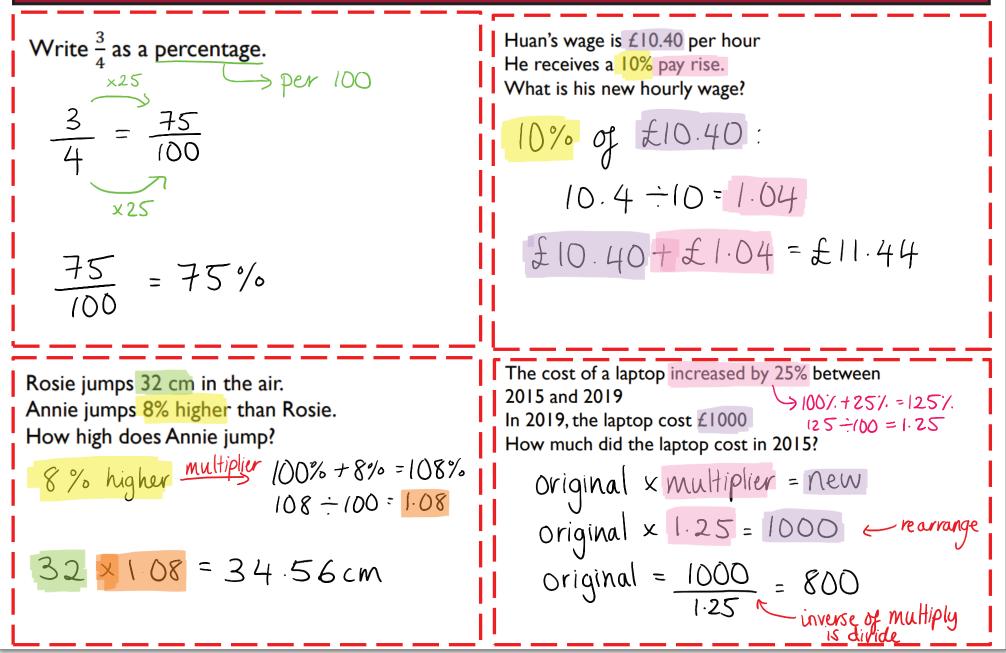
Maths

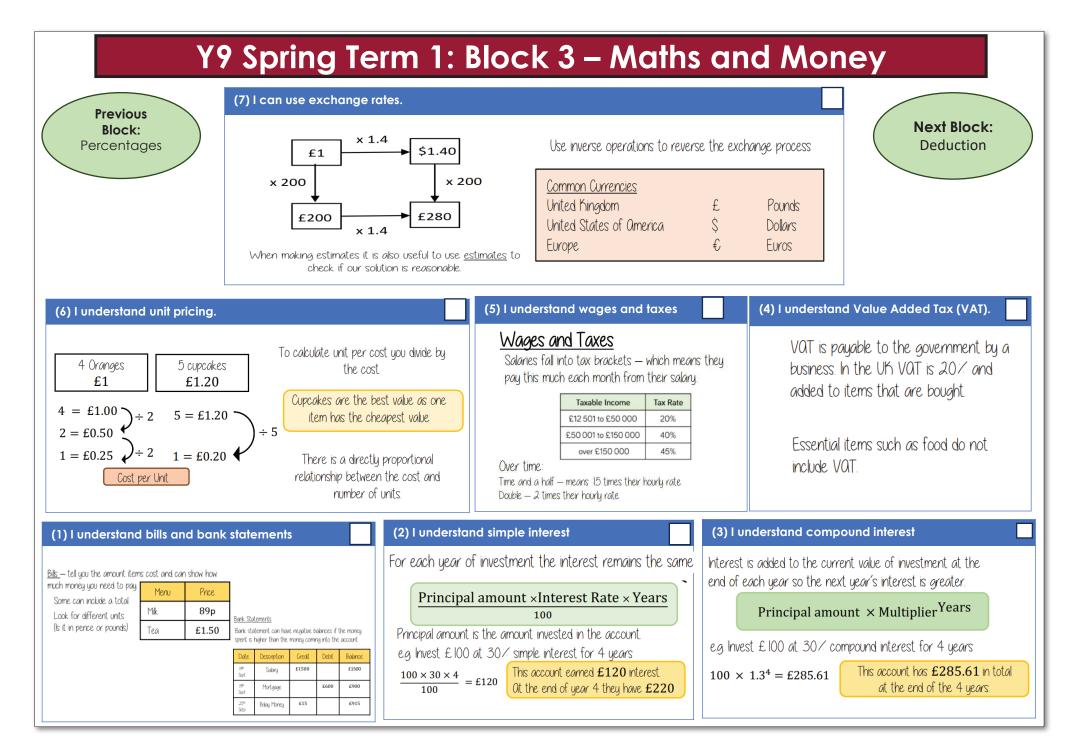


# Maths | Percentages | Topic Dictionary

	Definition	In a sentence	
equivalent	Numbers or expressions that are written differently but are always equal in value.	The expressions 6(x+2) and 6x+12 are <b>equivalent</b> , as they simplify to the same result.	
growth	To increase or to grow.	The population of the city experienced rapid <b>growth</b> , increasing from 50,000 to 75,000 inhabitants in just five years	
invest	To use money with the goal of it increasing in value over time (usually in a bank).	She decided to invest £500 in <b>stocks</b> to grow her savings.	
loss	If a product is sold at a price less than its cost price, then the seller makes a loss.	The business suffered a <b>loss</b> of £2000 due to unexpected expenses.	
multiplier	The number you are multiplying by.	The <b>multiplier</b> of 3 increased the original number,4, to 12.	
percent	Parts per 100.	The shirt was on sale for 20 <b>percent</b> off the original price, making it a bargain.	
r ar catit	Profit is the money earned when selling something for more than it cost.	The company reported a <b>profit</b> of £150,000 last quarter, exceeding their expectations and boosting investor confidence.	

# Maths | Percentages | Skills Guide

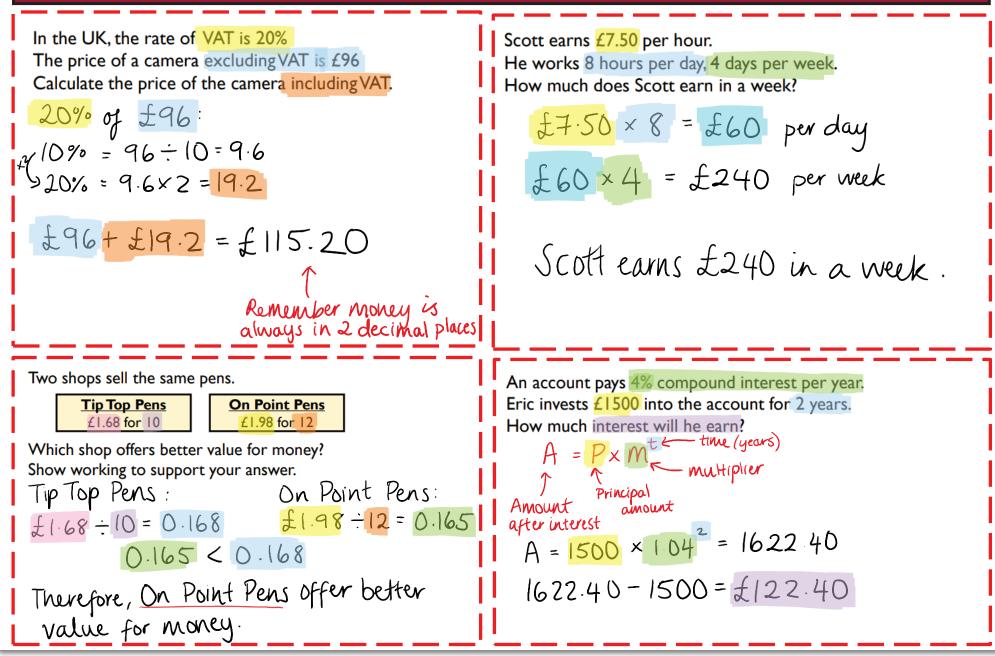


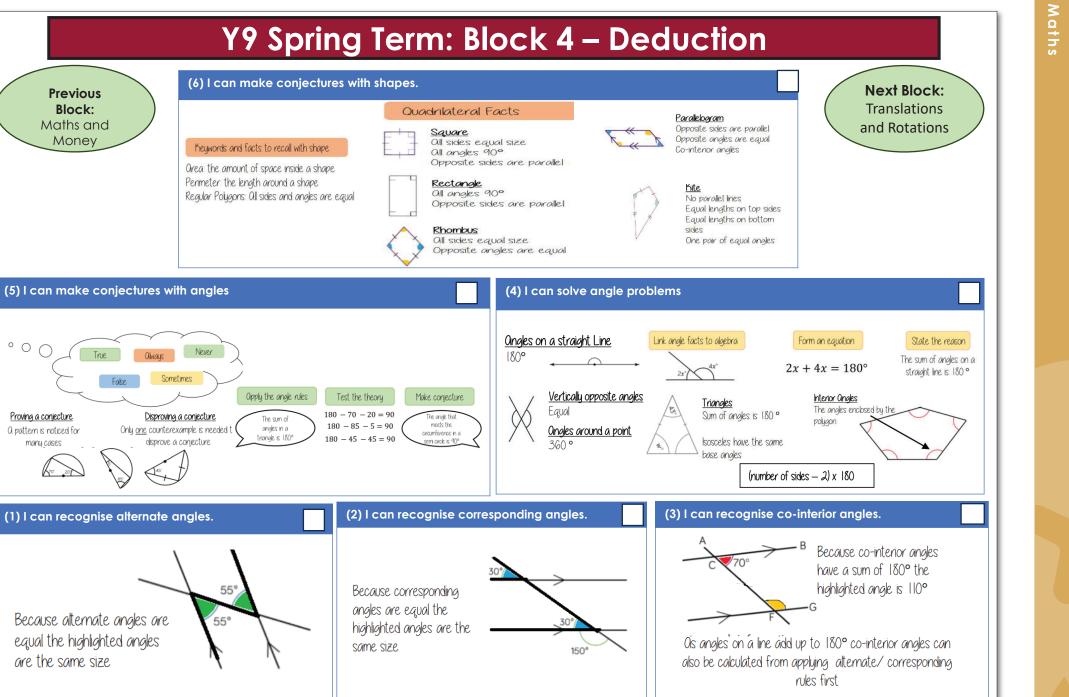


# Maths | Topic Dictionary | Maths and Money

Key Word	Definition	In a sentence
balance	An amount of money in an account.	She checked her acount <b>balance</b> and was relieved to see a balance of $\pounds1000$ , enough to cover her rent for the month.
bills	Shows how much money is owed for goods or services.	She paid her <b>bills</b> online, covering her electricity, water, and credit card dues with just a few clicks.
credit	An amount of money paid into an account.	The bank statement showed a <b>credit</b> of £500, which was the deposit she had made the previous day.
currency	The type of money a country uses.	The traveler exchanged her money for the local <b>currency</b> at the airport, swapping dollars for euros.
debit	An amount of money taken out of an account.	The bank statement showed a <b>debit</b> of \$200, which was the withdrawal he had made at the ATM last week.
deposit	An initial payment (often away of securing an item you will later pay for).	She made a <b>deposit</b> of £500 into her account.
expense	A cost or outgoing.	The new computer was a big <b>expense</b> for her small business.
per annum	Each year.	The investment earned 5% interest <b>per annum</b> .

# Maths | Maths and Money | Skills Guide





are the same size

equal the highlighted angles

**Previous** 

Block:

Maths and

Money

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Proving a conjecture

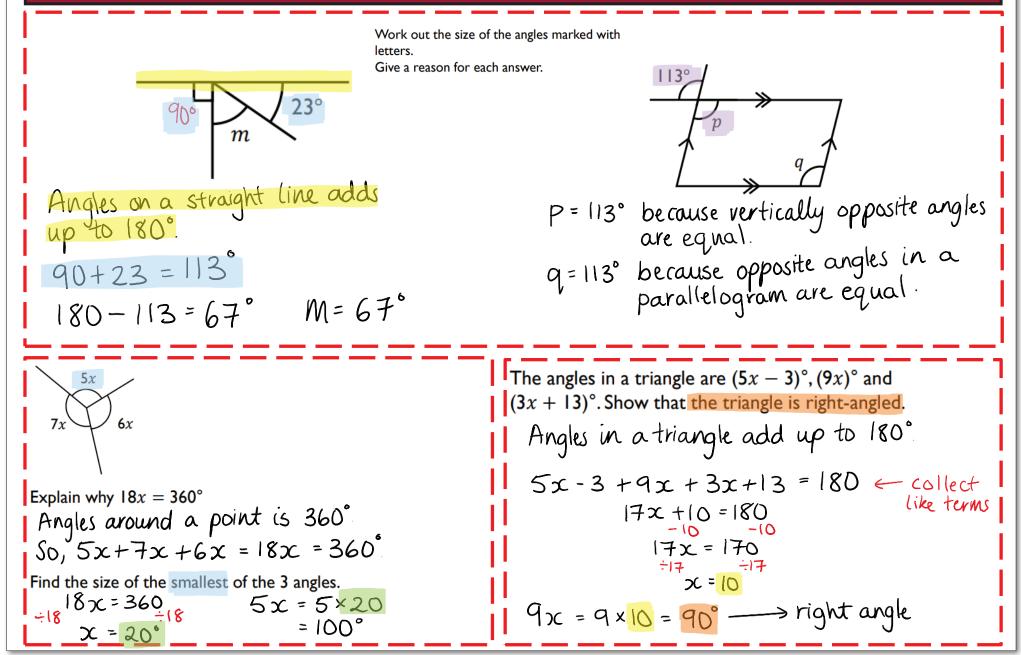
Q pattern is noticed for

many cases

# Maths | Deduction | Topic Dictionary

Key Word	Definition	In a sentence
alternate angles	A pair of angles between a pair of parallel lines on opposite sides of the transversal.	The student applied the concept of <b>alternate angles</b> to solve the geometry problem.
co-interior angles	A pair of angles between a pair of parallel lines on the same side of the transversal.	The geometry teacher explained that <b>co-interior angles</b> are supplementary, meaning they add up to 180 degrees.
conjecture		The mathematician <b>conjectured</b> that the number 36 could be expressed as the sum of two prime numbers.
corresponding angles	A pair of angles in matching positions compared with a transversal.	The math textbook illustrated <b>corresponding angles</b> with a diagram, highlighting their identical measures.
counterexample	An example that disproves a statement.	The student found a <b>counterexample</b> to the conjecture that all odd numbers are prime, disproving the theory with the number 9.
parallel		The architect designed the two roads to run <b>parallel</b> to each other.
perpendicular	Two straight lines that meet at 90 degrees.	The architect designed the building's walls to be <b>perpendicular</b> to the floor, ensuring a sturdy and stable structure.
transversal	A line that crosses at least two other lines.	The teacher drew a <b>transversal</b> line across the two parallel lines, creating eight angles in the process.

# Maths | Deduction | Skills Guide

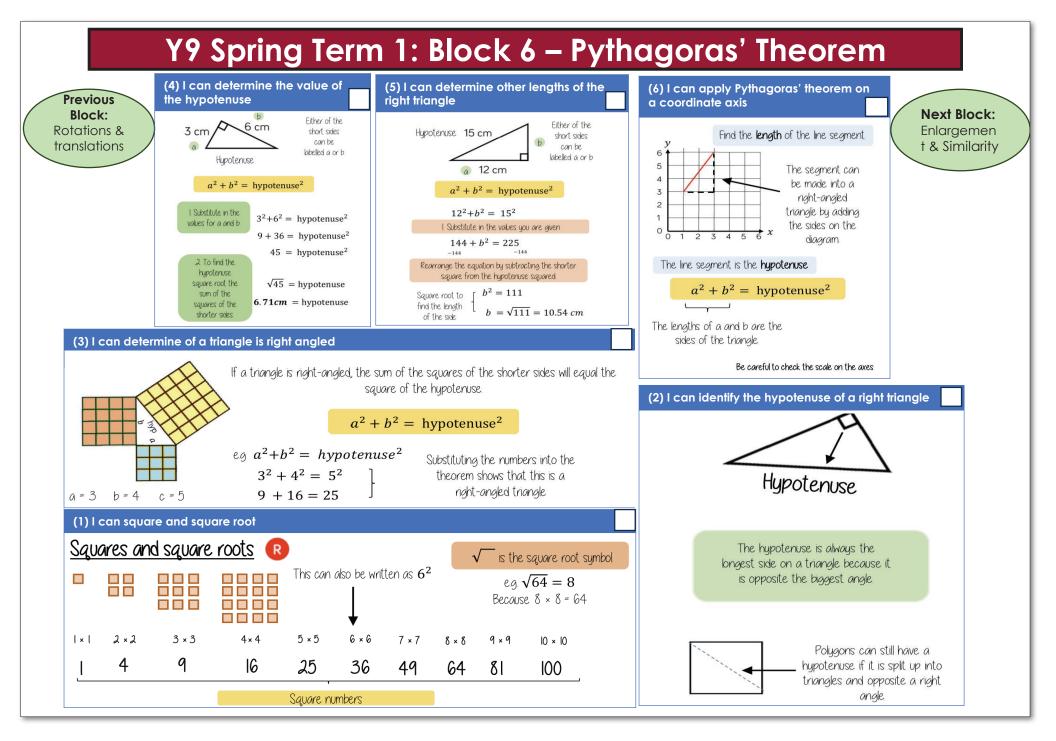


#### Y9 Spring Term 1: Block 5 – Translations and Rotations (5) I can compare rotations and reflections. Next Block: **Previous Block:** Pythagoras' Deduction Theorem Reflections are a mirror image Rotations are the movement of a shape in a of the original shape. circular motion Information needed to perform a rotation: Information needed to perform a Point of rotation reflection: Direction of rotation -- Line of reflection (Mirror line) Dearees of rotation (3) I can rotate from a point in a shape. (4) I can rotate from a point outside a shape. l Trace the original shape Image: 90° anti - clockwise Original (mark the point of rotation) shape Point of I Trace the original shape 2. Keep the point in the same rotation (mark the point of rotation) place and turn the tracing paper 2. Keep the point in the same 3. Draw the new shape place and turn the tracing Point of paper rotation 3. Draw the new shape Image: 90° Original clockwise Onti-Clockwise Clockwise shape (1) I understand rotational symmetry. (2) I can use translation and vector notation. Tracing paper helps check Rotational Symmetry rotational symmetry How far left or right to move Negative value (left) I Trace your shape (mark Vector Positive value (right) the centre point) Notation Every vertex has been translated 2 Rotate your tracing How far up or down to move by the same amount paper on top of the Negative value (down) original through 360° Positive value (up) Original Translation 3 Count the times it fits shape back into itself O regular pentagon has rotational symmetry of order 5

# Maths | Rotations and Translations | Topic Dictionary

Key Word	Definition	In a sentence
	A horizontal line runs from left to right and has a slope of zero, meaning it does not rise or fall.	The windowsill was a <b>horizontal</b> surface, perfect for placing plants.
invariant	A point that does not move after a transformation.	The scientist found that the <b>invariant</b> constant appeared in every experiment, no matter the conditions.
IN ACILICI	A shape that has unequal sides and unequal angles.	The graph showed an <b>irregular</b> curve, with sudden spikes and dips that did not fit a predictable pattern.
line of symmetry	A line that cuts a shape exactly in half.	The butterfly's wings are identical on both sides, forming a perfect <b>line of symmetry</b> down the middle.
regular	A shape that has equal sides and equal angles.	A <b>square</b> is a regular polygon because all its sides are equal.
rotational symmetry	Rotational symmetry refers to a property of a shape that looks the same after being rotated by a certain angle around a central point.	The starfish exhibits <b>rotational symmetry</b> because it looks the same after being rotated by certain angles.
vertex	A point where two or more edges meet.	The cube has eight <b>vertices</b> , each formed where three edges meet.
vertical	A vertical line runs up and down and has an undefined slope because it does not change in the horizontal direction.	The y-axis on a graph is a <b>vertical</b> line that runs from top to bottom.

### Maths | Rotations and Translations | Skills Guide Which shapes have rotational symmetry of order 2? The order of rotational symmetry of a shape is Tick your answers. equal to the number of lines of symmetry. Draw one example that supports this conjecture, and one example to disprove this conjecture. Disprove Support e.g. e.g. Rotational symmetry - amount of times it looks the same around a full 360° turn The coordinates of point F after a translation by Describe the the vector $\begin{pmatrix} -4\\ 3 \end{pmatrix}$ are (5, 8) transformation that maps shape A Find the coordinates of point F before the В onto shape B. translation. positive moves right hegative moves left 4 -3 -2 -1 2 0 Reflection on Vector : -positive moves up negative moves down the line Inverse of $\chi = 0$ or y-axis Reflection - shape being flipped. 5 + 4 = 98-3=5

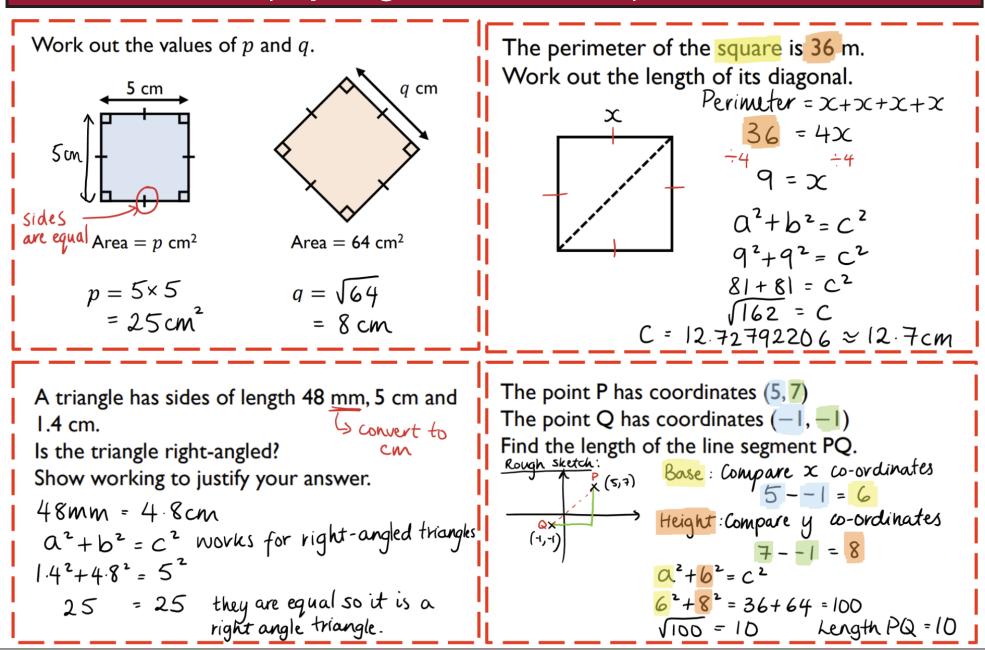


Maths

# Maths | Pythagoras' Theorem | Topic Dictionary

Key Word	Definition	In a sentence
square Number	The result of multiplying a number by itself.	The number 16 is a <b>square number</b> because it equals 4 × 4
square Root	A number that, when multiplied by itself, gives the original value.	The <b>square root</b> of 25 is 5 because $5 \times 5 = 25$ .
hypotenuse	The longest side of a right-angled triangle, opposite the right angle.	In a right triangle with sides 3 and 4, the <b>hypotenuse</b> is 5 according to the Pythagorean theorem.
opposite	The side of a triangle directly across from the angle being measured.	In a triangle, if the angle of interest is 30°, the side <b>opposite</b> that angle is the shortest one.
adjacent	The side of a triangle that is next to the angle being measured, excluding the hypotenuse.	To find the cosine of 45°, divide the length of the <b>adjacent</b> side by the length of the hypotenuse.
right Triangle	A triangle that has one angle exactly equal to 90 degrees.	In a <b>right triangle</b> , the sum of the squares of the two shorter sides equals the square of the hypotenuse.
	A mathematical formula stating that in a right triangle $a^2+b^2=c^2$ where c is the hypotenuse.	Using the <b>Pythagorean theorem</b> , if one side is 3 and the other is 4, the hypotenuse is 5 because $3^2 + 4 = 5^2$ .
acute Angle	An angle smaller than 90 degrees.	In a right triangle, both non-right angles are <b>acute</b> <b>angles.</b>

# Maths | Pythagoras' Theorem | Skills Guide



# PE | Physical training | Topic Dictionary

Key word	Definition	Question
obesity	A person with a large amount of body fat	What type of athlete would need a high amount of <b>strength</b> to compete?
cardiovascular endurance	The ability of the heart, lungs and blood to transport oxygen during sustained exercise	What type of athlete would need good <b>cardiovascular endurance</b> to compete?
flexibility	The range of movement possible at a joint	What type of athlete would need good <b>flexibility</b> to compete?
coordination	The ability to use 2 or more body parts at the same time whilst maintaining control	What type of athlete would need good <b>coordination</b> to compete?
balance	The ability to maintain your centre of mass over a base of support	What type of athlete would need good <b>balance</b> to compete?
agility	The ability to change direction quicky whilst maintaining control	What type of athlete would need good <b>agility</b> to compete?
speed	The time taken to overcome a distance	What type of athlete would need good <b>speed</b> to compete?

# Physical training Knowledge Organiser

Phases of a v 1. Pulse ra		As a year 9 sports person, I should		
2. Dynamic stretches		1. Know the different components of fitness		
3. Sport sp activity	3. Sport specific/game related activity		2. Understand the importance certain components of fitness for different positions	
Phases of a cooldown:		3. Know the difference muscular endurance and muscular strength		
1. Gradua	<ul><li><u>Phases of a cooldown:</u></li><li>1. Gradual reduction in intensity</li><li>2. Stretching</li></ul>		4. Know the name of the fitness tests that test the components	
Key Word	Definition		Example	
Cardiovascular endurance	The ability of the heart, lungs and blood to transport oxygen		Completing a full game of basketball or football	
Flexibility	The range of motion at a joint		A football player and basketball player would use this to increase their stride length	
Muscular endurance	The ability to use voluntary muscles repeatedly without tiring		Basketball player and footballer would repeatedly use their legs to run, shoot and jump	
Muscular strength	The amount of force a muscle can exert against a resistance		A footballer kicking a football into the goal, they would need to use muscles to get enough power to beat the goalkeeper	
Agility	The ability to change direction quickly whilst maintaining control		Basketballer will need agility to change directions quickly when getting past his opponents	
Balance	The ability to maintain the body's centre of mass above the base of support		Footballers will be pushed off the ball while trying to dribble past their opponents. They will need balance to stay on the ball using their body's centre of mass	
Coordination	The ability to use two or more body parts together		Basketballers will need to use their eyes and hand to keep the ball In their possession while dribbling	

	Football Knowledge Organiser					
Infringement	Description	Linesman signal	As a year 9 sports person, I s	hould		
Thrown ins	Thrown ins When the ball goes out of play on the touch line, the team who didn't touch it last are awarded the ball and restart play with a		1. Know all the different positions used in			
			<ol> <li>Understand the responsibility of each</li> <li>Know the rules of the game</li> </ol>	role in football		
subs	When one player is swapped for another, usually because of an injury or tactical reasons	Ŷ	<ul> <li>4. Be able to explain different skills used competitive situations</li> <li>Positions</li> </ul>	in the game and show it in		
Offside	A player is in an offside position if they are nearer to their opponents' goal line than both the ball and the second last opponent when the		goalkeeper	Main role is to stop the opposition from scoring goals. They are the only players who are allowed to use their hands on the pitch		
	ball is played towards them	.11.	Defender	Main responsibility is to stop the opposition attacking their goal. Can be useful at set pieces as they are usually the tallest players on the pitch		
Left midfield Centre midfield Centre midfield		Midfielder	Needs to be good at all areas of the game as they are involved in attacking and defensive situations			
Leftback	Centre-back Centre-t	Right-back back	Forward	Main role is attacking the opposition's goal and scoring goals		

PE

	basketball Knowledge Organiser					
infringement	Description	Hand signals	As a year 9 sports person, I should			
Back court Once the basketball crosses the centre line and into the				<ol> <li>Know all the different positions used in a basketball game</li> <li>Understand the difference between a half court and full court</li> </ol>		
	offensive zone, it's a violation for the offense to dribble or pass it into the backcourt		press         3. Know the different hand signals for infringements in the game         4. Be able to use different type of dribbling skills in a competitive			
Point scored	Point scored The referee fingers to indicate how many		Positions	game Positions		
3 second violation	points have been scored ( 1, 2 or 3) a player shall not remain in the	AM A	Guard Point guards have strong ball handling at passing skills and are typically used to ru offense. Shooting guards, as the name in generally the team's best shooters			
	opponents' key for more than three consecutive seconds while their team is in control the ball		Centre	The centre (C), usually plays near the baseline, close to the basket (the "low post"). They are		
Power Forward Center				usually the tallest players on the floor. They are typically skilled at gathering rebounds, contesting shots and setting screens on plays		
2 Shooting Guard	3 Small Forward		Forward	Forwards are primarily responsible for scoring and rebounding		
	Point Guard					

PE

# Skills Guide

DEFINE	<ul> <li>I am able to:</li> <li>Define 4 key words from my dictionary, such as:</li> <li>Speed</li> <li>Agility</li> <li>Balance</li> <li>Co-ordination</li> </ul>
<u>APPLY</u>	<ul> <li>I am able to:</li> <li>Give examples of which position in football and basketball needs a specific fitness component to benefit their game</li> <li>Describe how you would test for different components of fitness</li> <li>Describe how some athletes would not need to focus on training some components of fitness</li> </ul>
EVALUATE	<ul> <li><u>I am able to</u>:</li> <li>Explain why a footballer or basketballer would need certain fitness components more than other fitness components .</li> <li>Explain how footballers and basketballers would be able to improve certain components of fitness by using certain training methods</li> </ul>

	RE  St Mark's Gospel Topic Dictionary					
Image	Key Word	Definition	In a sentence			
	Baptism	A Christian ceremony, used to wash sins away and the beginning of a person's relationship with God	The baby cried as the priest performed the <b>baptism</b> , pouring water over her head.			
රීර්	Conviction	Decision of a jury a judge in a court of law that someone is guilty of a criminal offence	Jesus was wrongfully <b>convicted</b> of starting a rebellion against the Romans.			
	Crucifixion	The event where Jesus was put to death by being nailed to a cross.	The <b>crucifixion</b> of Jesus is celebrated by Christians on Good Friday during Holy Week.			
<i>л</i> алала П П П	Discipleship	Being a follower or a student of someone. Jesus had 12 disciples during his ministry, today all Christians are disciples.	Modern day <b>discipleship</b> includes being a role model for other Christians and evangelising about the faith.			
	Evangelism	Spreading the word of God through action or speech	There are many forms of <b>evangelism</b> but being a street preacher ha always been a popular one.			
	Interpretation	A way of reading. Looking for specific types of knowledge in a piece of writing.	Interpretation of scripture can vary greatly as some are fundamentalists and some are liberal.			
Ľ	Gospel	Greek for 'Good News'. The story of Jesus' life.	The <b>gospel</b> shares the life of Jesus from his birth to ascension.			
<i>7</i> Q	Literal Meaning	A word-for-word way of reading. Believing that the Bible contains historical, scientific and spiritual truths.	A fundamentalist reads the Bible <b>literally</b> and believes God created the world in 6 days.			
	Ministry	The name given to the three years that Jesus spent preaching and performing miracles, including his teachings and parables	Jesus' <b>ministry</b> began when he was baptised at the age of 30.			
	Miracle	An extraordinary event taken as a sign of the power of God	Everyone thought it was a <b>miracle</b> when it snowed in the desert.			
<b>*</b> it	Outcast         People who are not accepted by society; a person who has been rejected		Jesus chose to spend his time with <b>outcasts</b> like those with leprosy to show that God is truly all-loving.			
	Parable	A simple story used to illustrate a moral or spiritual lesson, as told by Jesus in the Gospels.	Jesus often taught his followers through parables <b>such as the Parable</b> of the Prodigal Son.			
<u>×</u>	Sanhedrin	Jewish Council at the time of Jesus: It consisted of 71 members, met in Jerusalem and was led by the High Priest	The <b>Sanhedrin</b> held a lot of authority in Jerusalem at the time of Jesus			
	Spiritual Meaning	A way of reading that believes some stories in the Bible are metaphors. Believing that a text contains spiritual truths but may not be completely accurate.	A liberal approach seeks <b>spiritual meanings</b> and believes God created the world by causing the Big Bang.			

## As a Year 8 theologian I can interpret St Mark's Gospel

### As a Year 8 RE student I know ....

		200
Why we study St Mark's Gospel	1	
The influence of St Mark on our local community	2	3
The history of the Gospel	3	
The chronology of the gospel	4	1
1		

## Who was St Mark?



Referred to as John Mark, he was first introduced in Acts 12 as the companion of Paul and Barnabas on their apostolic missions. He worked alongside these two faithful Christians to spread the Gospel across the nations.

Martyred for the Christian faith Mark is represented as a lion in our school logo because of his commitment to evangelism (spreading the Christian faith).



# St Mark Church, Mitcham

Our school's local church also named after St Mark is a diverse and welcoming Church of England church, in the diocese of Southwark.

### History of St Mark's Gospel

The Gospel of Mark is the shortest of the four Gospels. Ninety-percent of its stories are found in either Matthew or Luke. The early church father, Augustine, considered Mark to be a mere abbreviation of Matthew and Luke.

However, in recent years the Gospel of Mark has become more widely studied due to the belief it was the first of the gospels to be written down (it was written in approx. 70AD).

The first half of the Gospel concerns the identity of Jesus as the mighty Messiah and Son of God (Mark 1:1–8:30). The second half concerns the mission of Jesus (Mark 8:31–16:8). According to the Gospel Jesus incarnated to suffer and die as an atoning sacrifice for sins.

Strictly speaking, though all four Gospels are anonymous, early church tradition identified the author of the second Gospel as John Mark, cousin of Barnabas (Col 4:10) and son of Mary, a prominent woman in the church in Jerusalem (Acts 12:12).

# Key Events in St Mark's Gospel

Jesus' Baptism – Mark 1:9-11

Jesus is baptized by John in the Jordan River, and the Holy Spirit descends on Him like a dove.

#### Jesus and the Four Fishermen – Mark 1:16-20

Jesus calls Simon (Peter), Andrew, James, and John to follow Him and become "fishers of men."

#### Crowd by the Lake – Mark 2:13-17

Jesus teaches by the lake and calls Levi (Matthew) to follow Him, leading to criticism from the Pharisees.

#### Parable of the Sower – Mark 4:1-9

Jesus teaches the crowds a parable about a sower scattering seeds, explaining how different people respond to the word of God.

#### Death of John the Baptist – Mark 6:17-29

John the Baptist is imprisoned and beheaded by King Herod, following the request of Herodias' daughter.

#### Parable of the Tenants – Mark 12:1-12

Jesus tells a parable about a landowner and his tenants, symbolizing Israel's rejection of God's messengers.

#### Jesus Predicts Peter's Denial – Mark 14:27-31

Jesus predicts that Peter will deny Him three times before the rooster crows.)Peter's Denial – Mark 14:66-72(Peter denies knowing Jesus three times, just as Jesus predicted, and the rooster crows.

Jesus' Crucifixion – Mark 15:21-41

Jesus is sentenced to death, crucified, and dies on the cross.

Resurrection and Appearance to Mary Magdalene – Mark 16:9-11

Jesus appears first to Mary Magdalene after His resurrection and she tells His disciples, but they don't believe her.

What are we looking for?	When reading, ask yourself:	
Literary Form	How is this story written? Does the story have a specific genre? What meaning can we get from this story?	John the Baptist prepares people for Jesus.
Author and Audience	Who was the text written by? Why did the author write this story? Who was it written for?	<b>1</b> The beginning of the good news about Jesus the Messiah <sup>[1]</sup> the Son of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:       Image: Constant of God, <sup>[2]</sup> 2 as it is written in Isaiah the prophet:         Image: Constant of God, <sup>[2</sup>
Setting	What is the world this story is set in? What places, roles, people and customs are mentioned?	Testament Prophet (someone who hears from God), Isaiah. 4 And so John the Baptist appeared in the wilderness, preaching a
Meaning	What do you think the author is trying to say with this story? What is this story about: morals, humanity, religion, God?	John was an 'Essene'. A group which believed Baptism was very important Interview of the state of the the state of the forgiveness of sins. <sup>5</sup> The whole Judean countryside and all the people of Jerusalem went out to him. Confessing their sins, they were baptized by him in the Jordan River. Interview of the state of the
Our World Today	What can this story teach us about our world today?	of whose sandals I am not worthy to stoop down and untie. <sup>8</sup> I baptize you with <sup>[0]</sup> water, but he will baptize you with <sup>[1]</sup> the Holy Spirit."

Literary Form	The first half of the Gospel concerns the identity of Jesus as the mighty Messiah and Son of God (Mark 1:1–8:30).	
Author and Audience	This very short Gospel concentrates on the last week before Jesus died. It shows how Jesus accepted suffering and won final victory over death and evil. Its main purpose was to encourage the Church in Rome which was suffering persecution.	
Setting	Unlike Matthew and Luke, Mark tells us nothing about Jesus' birth or childhood, instead, Mark plunges right into the public ministry of Jesus. The Trinity are also present during the baptism.	
Meaning	Shows that Jesus was being publicly recognised as the one Isaiah had spoken of, his baptism sets an example to his followers, and shows approval of John and the work he was doing.	
Our World Today	This proves to Christians that Jesus was the prophesised Messiah and that he is beginning his work of repairing the covenant between God and humanity.	

# <u>Daptism (Mark 1:1-8)</u>

Jesus' baptism is important because it's the start of His ministry. Even though He was perfect and didn't need to repent, He got baptized to show He was willing to stand with people who do. When He was baptized, the Holy Spirit came down like a dove, and God's voice said, "This is my Son" (Mark 1:9-11). It showed everyone that Jesus was divine and was sent by God. His baptism also set an example for us, showing that we should obey God too. Finally, it pointed to what Jesus came to do-die and rise again to save us from sin.

RE   Conflict   Topic Dictionary				
Image	Key Word	Definition	In a sentence	
	Conflict	Serious disagreement or argument between people, groups, or ideas.	A <b>conflict</b> arose when two counties disagreed over how to divide the natural resources found at their border.	
	Greed	Going to war to gain land or natural resources such as oil.	<b>Greed</b> leads people to take more than they need, creating injustice ir society.	
i i i i i i i i i i i i i i i i i i i	Guru Granth Sahib	The final Guru (teacher) in the Sikhi faith. The holy book of the Sikhi faith which contains guidance of how to be a good Sikh.	Sikhs read the <b>Guru Granth Sahib</b> for spiritual guidance and wisdom.	
A A A A A A A A A A A A A A A A A A A	Holy war	A war that is fought for religious reasons, usually backed by a religious leader.	The Crusades are an example of a <b>Holy War</b> fought by Christians in the medieval times.	
	Justice	Bringing about what is right and fair, according to the law of God's will.	Those who fight for <b>justice</b> want to ensure that everyone is treated fair and gets what they deserve.	
Ì	Just War Theory	A Christian theory that asks whether a war is fought justle.	One of the conditions of <b>Just War Theory</b> is that war is only ever a last resort.	
S.	Khalsa	Community of initiated Sikhs who are committed to upholding Sikh principles such as defending the faith.	The Khalsa was created by Guru Nanak to protect the Sikh community and uphold righteousness.	
E.	Peace making	Creating a state of happiness and harmony, the opposite of war and conflict.	We will send a <b>peace-making</b> mission to the area of the country wher there is the most fighting.	
WA:	Protest	A public expression of disapproval, often in a big group. Can be peaceful or violent.	The workers held a <b>protest</b> to demand better pay and conditions.	
	Quakers	A Christian denomination who worship in silence and are pacifists	<b>Quakers</b> did not fight in WWI, but they were happy to work as nurses to help heal the soldiers back to health.	
<b>NINE</b>	Reconciliation	Restoring friendly relationships after a war or conflict.	.After years of conflict, the two nations worked toward <b>reconciliation</b> .	
	Retaliation	Deliberately harming someone as a response to them harming you	<b>Retaliation</b> can escalate over time, as one attack leads to another causing communities to fall apart.	
۲.	Self-defence	Protecting yourself or others from harm	People are allowed to use <b>self-defence</b> to protect themselves from harm.	
	Pacifism	A belief that all forms of violence are wrong, commonly held by quakers	<b>Pacifism</b> does not work you cannot avoid violent conflict when one group tries to oppress another.	
	War	<b>C</b> onflict involving organized fighting between countries, groups, or organizations, often using weapons and lasting for an extended period of time.	War often causes destruction and suffering for everyone involved	

R E

## As a Year 9 theologian I can explain religious views on conflict

#### As a Year 9 RE theologian, I ...

I can explain the origins of the Sikhi faith	1
Know key Sikhi beliefs about Conflict	2
Know key Christian beliefs about Conflict	3
Can compare Christian and Sikhi views	4

The was formed by at in AD1699. It is a group into which committed Sikhs can be initiated to demonstrate their devotion to their faith. The Khalsa commemorates five volunteers who were prepared to offer their lives for and Guru Gobind Singh. Their commitment is an example of -awillingness to serve others without thought for your own wellbeing.



# The Five Ks are key symbols worn by baptized Sikhs to show their faith:

- 1. Kesh: Uncut hair, symbolizing respect for God's creation and naturalness.
- 2. Kara: A steel bracelet, representing the eternal nature of God and commitment to truth.
- 3. Kanga: A wooden comb, symbolizing cleanliness and order.
- 4. Kachera: Cotton undergarments, signifying modesty and self-control.
- Kirpan: A ceremonial sword, representing the defence of justice and protection of the weak.

#### Sikhi Views on Pacifism

Few Sikhs are pacifists because they believe that war and conflict is justified in defence of their faith, or if fighting to combat oppression or a lack of human rights. Sikhs aim to build harmony between faiths and nations, but most would accept war as a means of achieving this as a last resort. Sikhism requires each Sikh to become a saint-soldier (Sant Siphahi): someone who prays and works for peace like a saint but has the courage and ability to fight for justice and peace if all other means fail, like a soldier

#### Sikh Protests:

3 4

2 4

In 1972, the Road Traffic Act made it compulsory for all riders of motor bikes to wear a crash helmet. This was a problem for turban-wearing Sikhs who were faced with having to either break UK law or their religious requirements as members of the Khalsa. Sikhs felt they were justified in protesting. In fact, it was because they wished to obey UK law that they wanted to see a change to enable them to keep within the law while still practicing their faith

#### Key Quotes from the Guru Granth Sahib

- "Violence, attachment, greed and anger" says Guru Nanak "are like four rivers of fire. Falling into them, one is burned. O Nanak! One is saved only by holding tight to good deeds" – **encourages Pacifism**
- Sikhs should never be the first to "draw their swords". **encourages Self-Defence**
- "It is sinful to submit to the oppressor and the miscreants. Humility should be exhibited only where it is effective. – **encourages going to war as a last resort.**
- "A true warrior is one who fights for the downtrodden, the weak and the meek." encourages Self-Defence

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"I was born to advance righteousness, to free the good, and to destroy all evil-doers root and branch" – **encourages Self-Defence and promoting justice.** 

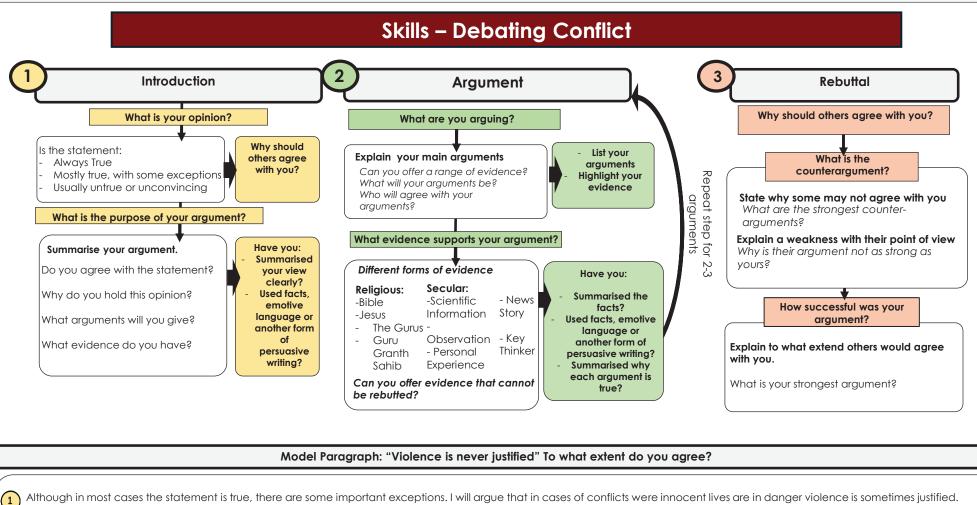
Just War Theory is a Christian moral theory for working out if a war meets internationally accepted criteria

- 1. for fairness. These are some of the conditions that must be met in order for a war to be just:
- 2. Just Cause fought in self-defence or to protect others
- 3. Just Intention fought to promote good and defeat wrongdoing
- 4. Last Resort only going to war if all other methods have been tried first
- Proportional excessive force should not be used, and innocent civilians must not be killed.

A Holy War is a war which is fought for religious reasons, often with the backing of religious leaders. An example of this was the Crusades fought from the 11th-14th Century by Christians, backed by the Pope. Religion can still be a cause for war today such as in Northern Ireland where Protestant and Catholic Christians fought a civil war between 1968-98. Pacifism is the idea that all forms of violence are wrong. Pacifists such as Quakers refuse to take part in war and often choose to be a conscientious objector (someone who doesn't go to war for moral reasons) or to assist in medical tasks like ambulance driving. Christians try to follow Jesus' teaching that "blessed are the peacemakers"

Christians try to show mercy and agape to victims of war and provide them with assistance. This can be through charity or through welcoming them into their churches. It can be victims in their own country or refugees such as people fleeing from Syria or Yemen. This is an example of 'love your neighbour' in action.





Although in most cases the statement is true, there are some important exceptions. I will argue that in cases of conflicts were innocent lives are in danger violence is sometimes justified.

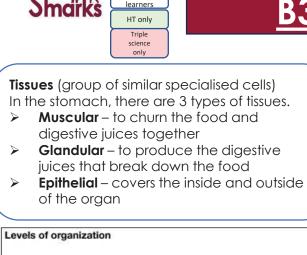
Firstly, although going to war is a last resort many people including Sikhs and Christians would agree that sometimes we are forced into war. For example, according the principles of Just (2) War Theory in Christianity if a conflict is for a good cause such as standing up for an oppressed group then violence can be justified. In this case going to war will result in long term peace.

Some may argue that violence can never achieve peace as it may be hard to end the conflict. Pacifists would say that violence is a destructive force, and conflict often hurts innocent (3) people too. However, it is important to remember that ignoring injustice is an even worse solution. If a group of people is being oppressed by a violent group than the solution may have to include a violent defence as well.

Similarly in the Sikh faith, being a defender of the oppressed is encouraged. The Guru Granth Sahib teaches Sikhs that a "true warrior is someone who stands up for the meek" showing us that we should not go to war to be violent but because it can help those in need. This teaching is useful because it also teaches that a true warrior does not always choose violence but thinks carefully about the consequences of their actions.

Overall, although often unnecessary violence is sometimes justified. Although a pacific worldview is more peaceful in a world where injustice exists it is important to stand up for the oppressed to create a better future for everyone.

(3)

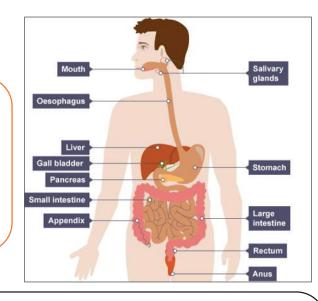


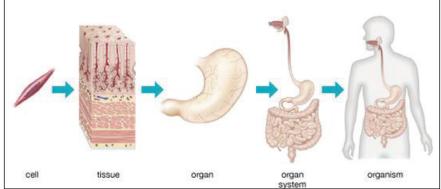
Core focus

# **B3** Organisation

### **Efficient Digestion**

- Villi, found in the small intestine, increase surface area and have a good blood supply, allowing for quick diffusion.
- Bile emulsifies fat into smaller droplets, increasing the surface area, as well as increasing the pH of the contents that have left the stomach





### Enzymes

They are biological catalysts, which speed up reactions.

Each enzyme's **active site** is specific to the **substrate**, and they bind together using the 'lock and key' theory.

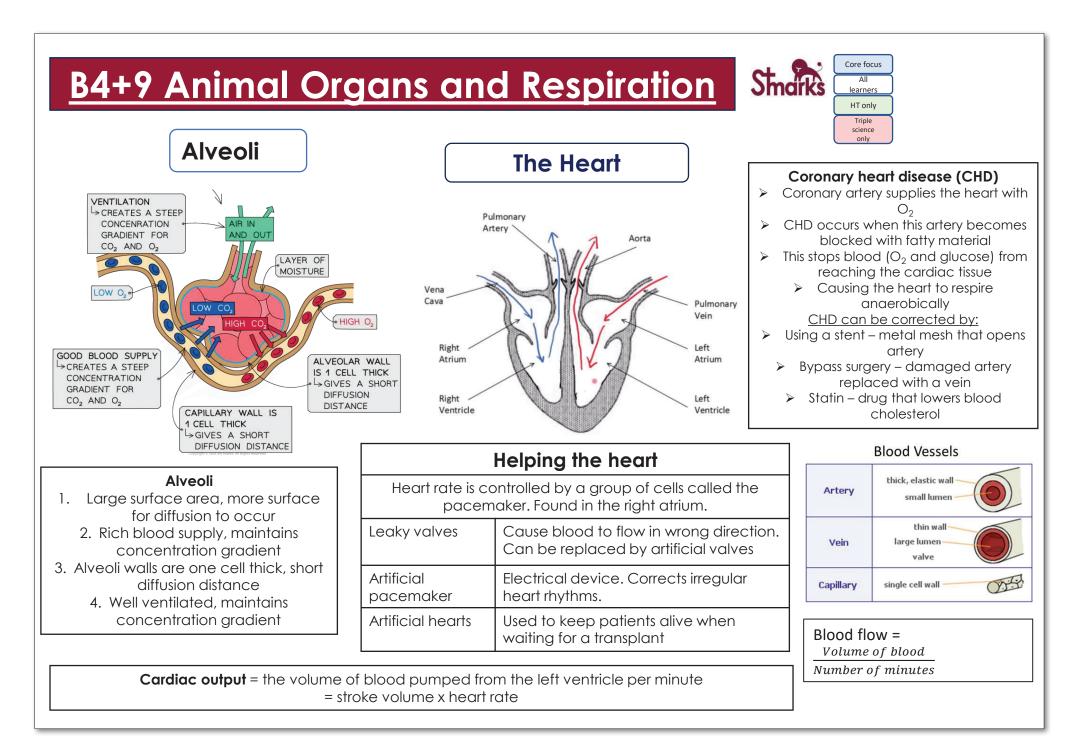
Enzymes have an **optimum** temperature and pH, at which they work best.

If enzymes get too hot or are in the incorrect pH, they can become **denatured**, where the active site changes shape, and the enzyme will no longer work.

Required	Practical: Foo	d tests		Nutrient	Sources	Uses	· ·	Breakdown Products	
Nutrient	Reagent	Starting colour	Indicator colour	Lipids (fats)	butter, chees	gy,		Fatty acids and glycerol	
Starch	lodine	Orange	Blue/black			cell membranes			
oraron	10 01110	orango	bioloy biolok	Carbohydrates	Bread, potat	Energy	Carbohydras	Glucose, simple	
Glucose	Benedict's	Blue	Brick red			oes, rice and pasta		e (amylase	sugars
Protein	Biuret	Blue	Purple				for starch)		
TIOICITI	DIOICI	DIOC	1 diple	Proteins	Meat,	Growth	Protease	Amino Acids	
Lipids	Ethanol	Clear	Cloudy layer on top		eggs and	and repair, tissues, hormone s, enzymes	(Pepsin in the stomach)		

# Biology | Organisation | Topic Dictionary

Word	Definition	In a sentence
Organ	Group of specialised tissues working together	The heart is a vital <b>organ</b> that pumps blood throughout the body.
Mouth	Mechanical breakdown of food, increasing surface area	She opened her <b>mouth</b> to speak.
Salivary glands	Moisten food and secrete amylase	The <b>salivary glands</b> produce saliva, which helps break down food.
Stomach	Acts as a muscular bag to churn food. Contains HCl to kill any pathogens. Contains protease(pepsin).	After skipping breakfast, her <b>stomach</b> growled loudly during the meeting.
Gallbladder	Stores bile	The surgeon explained that the <b>gallbladder</b> was inflamed and needed to be removed.
Liver	Produces bile	The doctor emphasized the importance of a healthy diet to support <b>liver</b> function.
Pancreas	Produces all enzymes; lipase, protease and carbohydrase	The <b>pancreas</b> plays a crucial role in regulating blood sugar levels.
Small Intestine	Absorbs nutrients. Contains all enzymes; lipase, protease and carbohydrase	Nutrients from the food we eat are absorbed primarily in <b>the small intestine</b> .
Large Intestine	Absorbs water	Water is absorbed from digested food as it moves through the <b>large intestine</b> .



cience

# Biology | Animal Organs | Topic Dictionary

Word	Definition	In a sentence
Blood	A tissue that transports substances around the body. Made of four components	The heart pumps <b>blood</b> around the body.
Red Blood Cell	Cell that carries oxygen around the body. Has large SA:V, no nucleus.	<b>Red blood cells</b> travel through your veins and arteries, delivering oxygen to the rest of your body.
White Blood cell	Fights infections. Can produce antibodies and antitoxins, and can engulf pathogens.	White blood cells help protect your body by fighting off infections and diseases.
Plasma	Carries cells and substances around the body	<b>Plasma</b> makes up most of your blood and helps transport nutrients, hormones, and waste products around the body.
Platelets	Cell fragments that clot wounds	<b>Platelets</b> help your blood clot when you get a cut, preventing you from bleeding too much.
Arteries	Carry blood away from the heart. Small lumen, elastic walls	The <b>arteries</b> carries oxygen-rich blood from the heart to the rest of your body.
Veins	Carry blood to the heart. Thin walls, large lumen, has valves	Veins carry blood back to the heart after it has circulated through the body.
Capillaries	Allow exchange of materials. Thin and permeable walls	<b>Capillaries</b> are tiny blood vessels where oxygen and nutrients pass from the blood into the cells.
Double circulatory system	Blood enters the heart twice during one circuit.	Humans have a double circulatory system, where blood flows through the heart twice.
Heart	Organ that pumps blood around the body. Made of cardiac tissue.	The <b>heart</b> pumps blood around the body,

# **B9** Respiration

### Equation for aerobic respiration:

glucose + oxygen  $\rightarrow$  water + carbon dioxide (+ energy released)

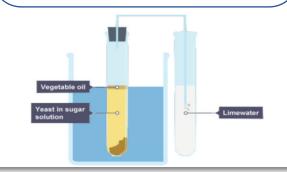
 $C_6H_{12}O_6 + \underline{6}O_2 \rightarrow \underline{6}H_2O + \underline{6}CO_2$ 

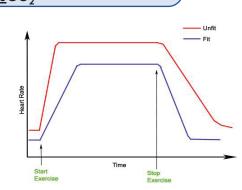
## Why do living things respire?

- 1. Maintain body temperature
- 2. Muscle contraction
- 3. Synthesis of larger molecules
- 4. Plants use the energy for active transport and to convert sugars and nitrates into amino acids.

### **Investigating Respiration**

This experiment shows that the Yeast is respiring. Carbon dioxide is produced by the yeast when it respires and travels into the second test tube where it turns the limewater cloudy. The speed at which this happens can be used to calculate the rate of respiration.





Core focus

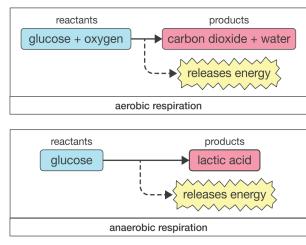
All learners

HT only

science only

When you start to exercise your heart rate and breathing rate increases. **This provides more oxygen to the muscles for aerobic respiration.** 

### In humans:



### Equation for anaerobic respiration in humans: Glucose $\rightarrow$ Lactic acid + (energy released)

### Oxygen Debt

Lactic acid is produced during anaerobic respiration. Lactic acid causes the muscles to become fatigued. When a person stops exercising and stops respiring anaerobically, they have an **oxygen debt**. The oxygen debt is the volume of oxygen required to breakdown (oxidise) all of the lactic acid. The bigger the oxygen debt the longer it will take for the person to fully recover.

lactic acid + oxygen carbon dioxide + water

# Equation for anaerobic respiration in plants and yeast:

Glucose  $\rightarrow$  ethanol + carbon dioxide (+ energy released)

### Role of the Liver

- 1. Detoxifying poisonous substances such as ethanol from alcoholic drinks
- 2. Breaking down old red blood cells
- 3. Storing iron to make new red blood cells
- 4. Converting lactic acid back into glucose

# Biology | Respiration | Topic Dictionary

Word	Definition	In a sentence
Alveoli	Small sacs found in the lungs. Allow exchange of $O_2$ and $CO_2$ .	Oxygen passes from the air into the blood through tiny sacs in the lungs called <b>alveoli</b> .
Respiratory system	Consists of the trachea, bronchi, alveoli, and a network of capillaries around the alveoli.	The <b>respiratory system</b> helps you breathe by taking in oxygen and removing carbon dioxide from the body.
Respiration	An exothermic reaction that releases energy.	During exercise, your body needs more oxygen for <b>respiration</b> to produce energy for your muscles.
Exothermic Reaction	A reaction which transfers energy to the environment.	When you light a match, it causes an <b>exothermic</b> reaction.
Mitochondria	Where aerobic respiration takes place.	<b>Mitochondria</b> are often called the powerhouses of the cell because they produce the energy the cell needs to function.
Aerobic Respiration	The release of energy from glucose in the <b>presence</b> of oxygen.	When you run, your muscles use <b>aerobic respiration</b> to produce energy, as long as there is enough oxygen.
Anaerobic Respiration	The release of energy from glucose in the <b>absence</b> of oxygen.	During a sprint, your muscles might use a <b>naerobic respiration</b> to get energy when there isn't enough oxygen.
Lactic acid	Produced during anaerobic respiration when glucose is incompletely broken down.	After running fast for a long time, your muscles may produce <b>lactic acid</b> , which can make them feel sore.
Glycogen	Muscles store glucose as this carbohydrate.	When you exercise, your body breaks down <b>glycogen</b> stored in your muscles to provide energy.
Heart Rate	The number of times your heart beats in 1 minute.	Your <b>heart rate</b> increases when you exercise to pump more blood and oxygen to your muscles.
Oxygen Debt	The amount of oxygen required to break down the build -up of lactic acid after exercise.	After sprinting, you feel out of breath because your body is in <b>oxygen debt</b> and needs extra oxygen to recover.
Metabolism	The sum of all the reactions in the body.	People with a faster <b>metabolism</b> burn energy more quickly.

# **P8 Forces in balance**



### <u>Moments</u>

A moment is the turning effect as the result of a force being applied some distance away from a pivot.

The moment is equal to the force applied multiplied by the perpendicular distance to the pivot.

### Moment(Nm) = force (N) x distance (m)

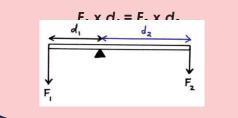


We can increase the turning effect by increasing the force applied or by increasing the perpendicular distance to the pivot.

You can test this by opening a door close to the hinge and far away from the hinge. Opening the door by pushing close to the hinge will be harder as the distance is less.

### The principle of moments

The principle of moments states that for an object in equilibrium, the sum of the clockwise moments is equal to the sum of the anticlockwise moments.



## <u>Vector and scalar</u>

All quantities in physics can be grouped as either a scalar or a vector.

Both vectors and scalars have magnitude (size) but only vectors have direction.

A good way to check is to add a direction and read it aloud to see if it makes sense. E.g. a force of 5N pushing to the right makes sense whereas 10J of energy going east does not make sense. Force is a vector, energy is scalar

#### Vector arrows

Vectors are often represented with an arrow. This is because an arrow can show magnitude (size), by how large the arrow is, and

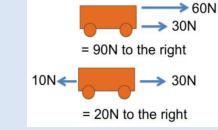
<u>Vector</u>	<u>Scalar</u>
Force	Speed
Displacemen t	Distance
Velocity	Mass
Acceleration	Energy
momentum	time

### Resultant force

A resultant force is the result of adding up all of the forces on an object.

If the forces are in the same direction they will add together.

If the forces are in opposite directions, they will cancel out. You can think of it as a force to the right being positive and a force to the left as negative.



### Free-body force diagram

A free-body force diagram helps to simplify a forces problem by only focusing on the forces on an object.

In the example below we can separate the forces on the object on the slop into the reaction force (N), tension (T), friction (f) and weight (Mg).

## <u>P8 Forces in balance</u>



freely hanging

card shape

bob

#### Parallelogram of forces

### <u>Centre of mass</u>

The centre of mass of an object is where an objects mass can be **thought** of as being concentrated. If you support an object at the centre of mass it will balance

In a symmetrical object the centre of mass will be where all of the lines of symmetry cross. you can test this by drawing the lines of symmetry on a piece of paper and balancing it on your finger.

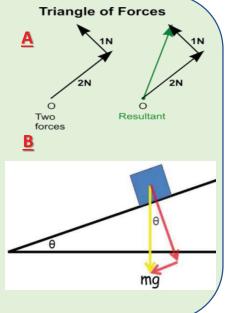
If you need to find the centre of mass on an irregular object you will need to suspend it from one side. The centre of mass will hang below where it is supported from. If you use a plumb line to draw straight down from where it is supported the centre of mass will be somewhere on the line. Repeat the process but suspend it from a different side. Where the two lines meet you will find the centre of mass. You should do it a third time to check that you were accurate.

#### **Triangle of forces**

Any force (or other vector) can be split into two perpendicular forces. In the same way, two perpendicular forces can be added together to make a resultant force.

In example A we have two perpendicular forces drawn to scale. In the second picture we have connected the two forces making a right angle triangle. Providing everything was drawn to scale we can measure the resultant force and the angle. We can use Pythagoras' theorem to calculate the magnitude of the force.

In example B we have a block on a slope. The yellow arrow represents the weight (mg) of the block and has been split into two perpendicular vectors again making a right angle triangle. One of the vectors points directly into the slope and the other points parallel to the slope.

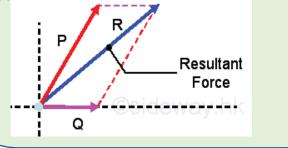


plumbline

If two forces are not acting in the same line it can be challenging to resolve their forces. In the photograph, two tug boats are pulling something through the water. Neither tugboat can pull the object straight forwards as they would collide. Each tug boat is pulling slightly away from the other as well as forward. The result of these two forces on the object is that it goes straight through the water.



The diagram below shows how we can resolve these forces. Using a compass we can have force Q coming from the tip of force P and force P coming from the tip of force Q. this forms a parallelogram of forces. We can then draw the resultant force R from the origin to the opposite corner. Providing the diagram is all drawn to scale we can measure the magnitude of the resultant force using a ruler and the direction of the force using a protractor

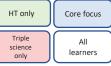


# Physics | Forces in Balance | Topic Dictionary

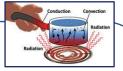
Word	Definition	In a sentence
Vector	A quantity with both magnitude (size) and direction.	We use <b>vectors</b> to show the direction and strength of forces acting on an object.
Scalar	A quantity with magnitude (size) but no direction.	Speed is a <b>scalar</b> because it tells you how fast something is moving, without any information about direction.
Resultant force	The sum of all the forces acting on a body.	The <b>resultant forces</b> on the box were balanced, so it didn't move.
Scale diagram	A diagram where the dimensions are drawn to a predetermined ratio.	We drew a <b>scale diagram</b> to help us find the resultant force acting on the object.
Newton's first lawIf the resultant force on an object is 0N and the object is at rest then it will remain at rest. If the object is moving it will continue to move at the same speed and in the same direction		Newton's First Law says that a moving ball will keep rolling unless something like friction or a force stops it.
Newtons third law	When two objects interact they exert equal and opposite forces on each other.	According to <b>Newton's Third Law</b> , when you push against a wall, the wall pushes back with an equal and opposite force.
MomentThe turning effect of a force. For example, pulling on a spanner results in a turning effect		The <b>moment</b> is stronger if you push the door farther from the hinge.
being concentrated. the <b>centre of mass</b> i		When you balance a ruler on your finger, the <b>centre of mass</b> is the point where it stays balanced.
Free-body force diagram	A diagram to show the forces acting on an object with on other objects or forces shown.	We drew a <b>free-body force diagram</b> to show all the forces acting on the car as it moves.

## P2 + P3 Energy Transfers and Resources





## Conduction



#### Non-metal:

In a non-metal the atoms which are being **heated start to vibrate more**, this causes them to **bump into the atoms** around them **passing the energy on**. This process is **relatively slow** meaning non-metals are typically **poor conductors**. This is why saucepan handles are often made of wood or plastic, they don't get hot quickly!

#### <u>Metals</u>

In a metal there are **free electrons** which can move around in the material. This means that when those **electrons gain energy by being heated** they can move much more quickly through the material. This makes metals **good conductors** of heat. The body of a saucepan is made of metal as it can conduct the heat quickly from the heat source underneath into the food.

### Specific heat capacity

All materials store heat, the specific heat capacity of a material tells you about how much heat that material can store. It is an intrinsic property of a material, similar to how density is an intrinsic property.

The specific heat capacity of a material tells you how much energy you would need to raise the temperature of 1kg of a material by 1 °C. the Specific heat capacity can be calculated using the equation below. This equation <u>IS</u> given you on the equation sheet in the exam.

Energy  $(J) = mass(kg) \times specific heat capacity <math>(J/kg \cdot c) \times temperature change(c)$ 

#### Worked example

If the specific heat capacity of water is 4200 J/kg °C, how much energy would it take to raise the temperature of 2kg of water from 20 degrees to 50 degrees?

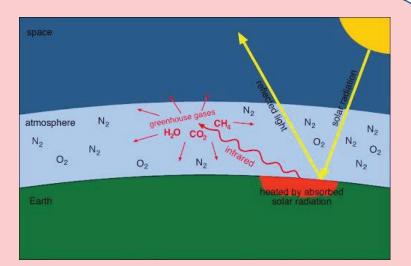
 $Energy = 2kg \times 4200 J/kg \cdot ^{\circ}C \times 30^{\circ}C$ Energy = 252000JEnergy = 252 kJ

### Infra-red radiation (IR)

IR is electromagnetic radiation with a slightly longer wavelength than visible light. As IR and visible light are so close they act in a very similar way, for example they are reflected more by shiny white materials and absorbed by matt black materials. IR can be used to see in the dark by special cameras as all materials give off an amount of infrared light depending on the material and it's temperature. IR can travel through a vacuum, otherwise you wouldn't feel any warmth from the sun!

### The greenhouse effect

Energy from the sun hits the surface of the earth, some of it is reflected back into space and some is absorbed. The absorbed energy warms the surface of the planet so it gives off more IR. This IR is absorbed by greenhouse gasses in the atmosphere before being remitted in a random direction. This means some of the absorbed IR will be reemitted back towards the earth, raising it's temperature. The more green house gasses there are, the more heat will be trapped by the atmosphere.



Core

focus

۸II

learners

HT only

Triple

science

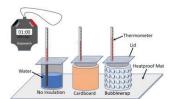
only

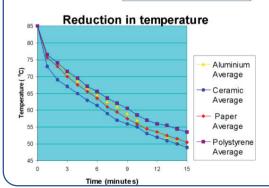
## P2 + P3 Energy Transfers by Heating

### <u>Required practical –</u> Insulation

This practical is designed to allow you to test how good different materials are at insulating.

- 1. Wrap 1 layer of each of your chosen insulation materials around sperate beakers. Leave one beaker uncovered as a control.
- 2. Freshly boil water and measure out 100cm3 into the beakers using a measuring cylinder.
- 3. Put a lid with a thermometer onto each beaker. Once the thermometer reads a certain temperature e.g. 85 degrees.
- 4. Read and record the temperature every minute for 15 minutes
- 5. Plot a graph of temperature against time. Put all of your data onto the same graph as shown.
- 6. The guicker the line drops, the worse the insulation as it lets the heat out more quickly.

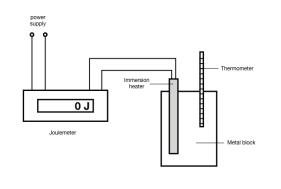




### **Required practical – Specific** heat capacity

In this practical you are asked to find the specific heat capacity (SHC) of a metal. We typically use 1kg aluminium cylinder.

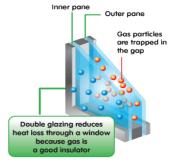
- 1. The metal block will have two holes in one for the heater and one for the thermometer. Make sure you put a drop of oil into each hole to improve the heat transfer
- 2. Insert the thermometer and wait a couple of minutes for the thermometer reading to settle before taking the initial temperature
- 3. Turn on the heater and wait for it to heat up before inserting it into the metal block and turning on the joulemeter.
- 4. Once the temperature of the block has risen 10 dearees record the energy added on the ioulemeter.
- 5. You now have the energy added, mass of the block, and the temperature change and can use the equation overleaf to calculate the specific heat capacity for the material the block is made from.
- 6. To reduce errors in the experiment you can cover the block in insulation to reduce heat lost to the surroundings.



### Insulation

Materials designed to keep heat in, whether a Jumper for you or fibreglass for your house is designed to trap pockets of air. Air is a bad conductor of heat due to gasses not having many particles to collide with the surface.

The diagram shows how a double glazing window uses this effect to keep your house warm.



#### Reducing heat loss in homes

Many things can be used to reduce heat loss in homes. Some examples are: double alazina windows, curtains, loft insulation, draught excluders, cavity wall insulation, curtains, and carpets. Installing these into your home will reduce the heat lost and therefore reduce your heating bills.

#### Pay back time

All of the above methods of reducing heat loss in your home cost money to install but save you money over time. We can work out how long it will take for something to pay for itself in savings by working out the payback time.

Curriculum Companions Year 9 Term Two

## P2 + P3 Energy Resources



HT only Core focus Core focus All learners

### Non-renewable energy

#### **Fossil fuels**

Coal, oil and gas are the three fossil fuels. Their advantages and disadvantages are very similar.

#### **Advantages**

- Very reliable
- High 'energy density' meaning they can produce a lot of electricity in a small space Gas has a low start up time

#### Disadvantages

- Produce carbon dioxide, a green house gas which leads to global warming
- Fossil fuels will run out
- Can release sulphur dioxide when burnt, leading to acid rain

#### <u>Nuclear</u>

Typically uranium or plutonium is used as fuel for nuclear power stations. Heat is released when the large nuclei split, this is used to generate electricity.



## <u>Renewable</u>

### Wind

A wind turbine is typically three large wing shaped blades atop a narrow tower. The wind makes the blades spin which turns a generator. A wind turbine only produces electricity when the wind is blowing so it is unreliable, however it does not produce any carbon dioxide or other greenhouse gases in operation.

### <u>Solar</u>

Solar energy can either be used to directly heat water to reduce the need for electricity/natural gas to heat it, or it can be used to generate electricity. Photovoltaic cells (which produce electricity when the sun hits them) are very expensive to purchase but are almost free to run once installed. Solar panels of all kinds work better on hot sunny days and do not work at all at night. They do not produce any greenhouse gases once installed.

### **Geothermal**

Geothermal power uses the heat of the earth to boil water, which is piped deep underground, into steam. This is used to turn a turbine which turns a generator. Geothermal energy is very reliable but can only be used in certain areas. Places with a lot of tectonic activity, such as Iceland, are most suited to geothermal energy.

### **Biofuel**

Biofuel works very similarly to fossil fuelled power stations (see overleaf). The main difference is that the fuel (e.g. wood or sugar cane) is grown, this growing process draws carbon dioxide out of the atmosphere, it also means that the fuel can be replaced making it renewable. The carbon dioxide drawn in when growing is released again when burnt making the process carbon neutral.

## P2 + P3 Energy Resources



HT only Triple science only
Core focus
All learners

### **Renewable (continued)**

#### **Hydroelectric**

A hydroelectric dam is made my blocking a river in a valley with a large concrete wall. The river will fill up the basin made by the dam wall and the sides of the valley. Once an appropriate height of water is behind the wall then the water is allowed to flow through an opening with a turbine in. the turbine spins a generator which then produces the electricity.

This is very (relatively) cheap and does not produce any green house gases when operating however it can disrupt wildlife and entire towns can be relocated

The energy transfer is: gravitational potential  $\rightarrow$  kinetic  $\rightarrow$  electrical

#### <u>Tidal</u>

Tidal power can be in the form of an underwater turbine similar to a wind turbine however this relies on incredibly powerful tides meaning not many areas are suitable. More common tidal power uses a tidal barrage. This traps water inside a walled area at high tide and lets it run out through a turbine during low tide. The barrage refills when the tide comes back in, this water can be let in through the turbine generating more electricity again.

#### <u>Waves</u>

Wave power uses the rocking motion of the waves to generate electricity. These systems are usually small and expensive meaning they are only suitable in remote locations where not much energy is needed and large infrastructure is not able to be constructed easily.



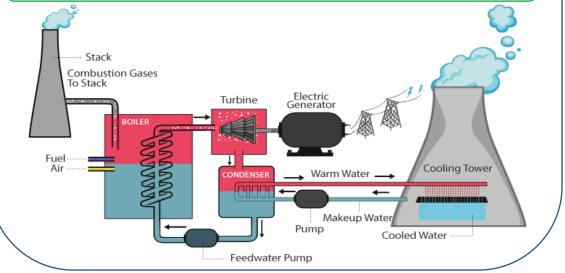
### Pumped storage

When an excess of electricity is produced due to the variations in demand and the unreliable nature of a lot of renewable power sources, water can be pumped back up a hydroelectric dam. When there is an increase in demand this water can be released to flow back through the dam giving more electricity to the national grid.

### How electricity is generated in a thermal power station

- 1. The fuel is burnt to convert chemical energy in the fuel to heat energy
- 2. The heat is used to boil water into steam
- 3. The steam makes a turbine spin which in turn makes a generator spin
- 4. The generator converts the kinetic energy from spinning into electricity
- 5. The steam is condensed back into water before being recycled back into the boiler.

In a nuclear power station the fuel is not burnt, the heat comes from nuclear fission. To reduce the risk of a serious accident the heat is transferred from the fuel to the boiler using a separate heating medium, e.g. oil or molten salt.



## Physics | Energy Transfers + Resources | Topic Dictionary

Word	Definition	In a sentence
Heat	Thermal energy – measured in Joules (J)	The <b>heat</b> from the fireplace made the room feel warm.
Temperature	How hot or cold something is.	The air <b>temperature</b> dropped so she put on a coat.
thermometer	A piece of equipment used to measure the temperature of something.	He used the <b>thermometer</b> to see how warm the water was.
Conduction	Heat transfer by particles colliding with each other. This is the primary method of heat transfer in solids.	The metal spoon became hot because heat was transferred from the hot soup through <b>conduction</b> .
Convection	Heat transfer in fluids (liquids and gasses). As the hotter parts of the fluid spread and become less dense they 'float' on top of cooler fluid creating a convection current.	The warm air rising from the heater created <b>convection</b> currents that spread heat throughout the room.
Infra- red radiation	Part of the electromagnetic spectrum. Similar to visible light but with a longer wavelength. What you feel as heat when you put your hand near something hot.	The metal fork became hot as it was heated by <b>infra-red radiation</b> from the campfire.
Insulation	Material to reduced conduction. Typically a non- metal or a material with air pockets such as fibreglass.	The metal fork became hot to the touch, but the plastic handle had good <b>insulation</b> , allowing her to hold it without burning her hand.
Greenhouse gases	Gasses with absorb and re-emit infrared radiation causing the greenhouse effect. E.g. carbon dioxide.	The melting ice caps are a direct consequence of the rising levels of <b>greenhouse gases</b> in the atmosphere.
Specific heat capacity	The amount of energy required to raise the temperature of 1kg of a material by 1 degree.	The <b>specific heat capacity</b> of water is high, which is why it takes longer to heat up compared to most metals.

## Physics | Energy Transfers + Resources | Topic Dictionary

Word	Definition	In a sentence	
Renewable	An energy resource which will not run out or which can be replenished as it is used. E.g. biofuel	Solar energy is a <b>renewable</b> resource, unlike fossil fuels that can eventually run out.	
Non- renewable	And energy resource which will run out and cannot be easily or quickly replaced. E.g. nuclear energy.	Coal is a <b>non-renewable</b> resource, which is why there is growing concern about its environmental impact.	
Fossil fuel	Fossil fuels are fuels that come from old life forms that decomposed over a long period of time. The three main fossil fuels are; coal, oil, and natural gas.		
Reliable energy	, · · · · · · · · · · · · · · · · · · ·		
Start up time	How long it takes a power station to start generating electricity after 'turning it on'.     The start-up time of the power station		
Global warming	The effect caused by the release of greenhouse gases, such as carbon dioxide, when fossil fuels are burnt. Global warming leads to climate change.	<b>Global warming</b> has led to more frequent and severe storms, causing widespread damage to coasts.	
Payback time	Pay back time is how long something takes to pay for itself.	If a solar panel cost £2000 but saved you £200 a year on your electricity bill then it will have a <b>payback time</b> of 10 years.	

## Skills guide- Standard form

$\mathbf{i}$	Converting to Standard Form:
You can use <u>standard form</u> to represent <u>very large</u> or <u>very small</u> numbers.	When changing <b>large</b> numbers into standard index form. The index notation will be <b>positive</b> .
Standard form makes use of the <u>laws of indices</u> but numbers are only	$2.4900$ = $2.49 \times 10^4$
expressed in one base, <u>base 10</u> .	- 2.47/10
/e use standard form to easily write very, very large numbers and very,	$7 \cdot 8 \circ 0 \circ 0 \circ 0 \circ 0 \circ 0 \circ 0 = 7.8 \times 10^9$
ery small numbers. A number is in standard form when it is written in the orm: a × 10n a is a number greater than, or <b>equal to 1, and less than 10</b> .	$5.4.3 \times 10^5$ = 5.43x10 <sup>7</sup>
is an integer (whole number). <b>If n is positive</b> , we are dealing with a arge number. <b>If n is negative</b> , we have a small number (less than 1).	$1_7_0_0, x 10^8 = 1.7 x 10^{-5}$
r divide by 10 (if n is negative). Informally, we can say that n tells us ow many places the digits have moved in relation to the decimal oint.	When changing <b>small</b> numbers into standard index form. The index notation will be <b>negative</b> .
Examples:	
$13 \times 10^5$ is not in standard form because 13 is larger than 10 $2.5 \times 10^3$ $4.62 \times 10^5$ $0.75 \times 10^4$ is not in standard	$0.04.9 = 4.9 \times 10^{-2}$
form because 0.75 is less than 1.	$0.000000821 = 8.21 \times 10^{-9}$
	$0.003.3 \times 10^7$ = $3.3 \times 10^4$
	$0.07.1 \times 10^{-11} = 3.3 \times 10^{-13}$

## Skills guide – Planning an experiment- Enzymes

When planning an experiment, you must identify your variables:

Independent variable- the factor you change Dependent variable- the factor you are measuring (think about the results you are collecting and how you will collect it

**Control variable-** The factors you will keep the same, to get reliable results.

Planning an experiment on the effect of temperature on the reactivity of amylase.

#### Things to consider:

What equipment will you use? Water bath Amylase Starch Boiling tube



#### What range of temperature will you investigate?

i.e between 10°C- 50°C

At what intervals will you carry out your experiment? i.e 'I will investigate the temperatures between 10°C- 50°C at 10°C intervals.

This means you will investigate the following temperature:  $10^{\circ}$ C,  $20^{\circ}$ C, 30v,  $40^{\circ}$ C and  $50^{\circ}$ C.

#### Method- making the method reliable

-You must repeat your experiments at least 3 times. -Control variables- using the same volumes. i.e same volumes of starch and amylase for each temperature, using the same concentration of amylase.

#### How will you present the data?

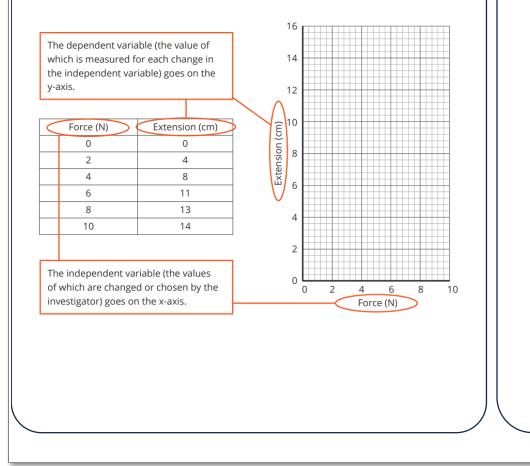
When drawing the table of results, do not forget that the independent variable goes in the left column whilst the dependent variable goes int the right column. **The units must always be included and** written in brackets.

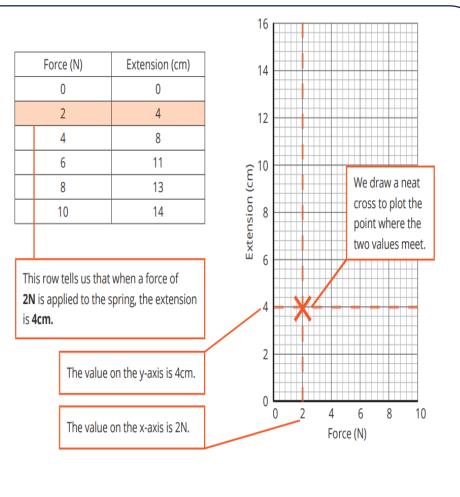
	Time taken until there is no starch present in the sample (mins)					
Temperatur e (°C)	Trial 1	Trial 2	Trial 3	Mean		
10						
20						
30						
40						
50						

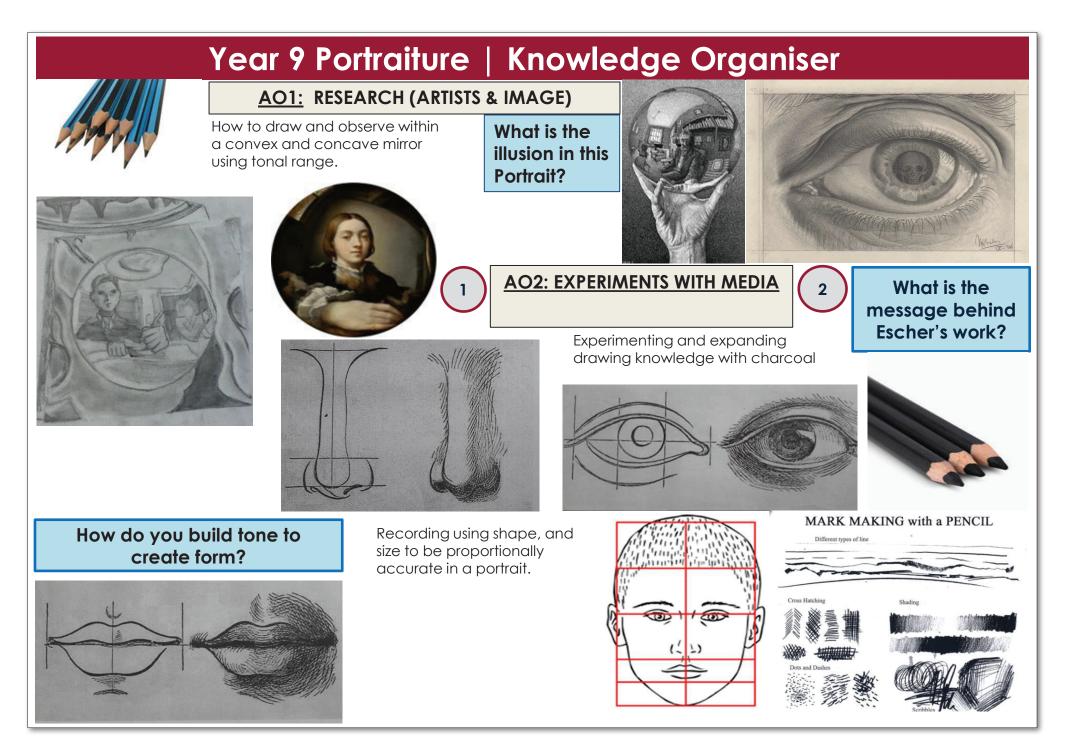
## Skills guide – Graph skills

#### Using Data to Draw a Graph

The table below shows some data collected in a Hooke's law investigation.







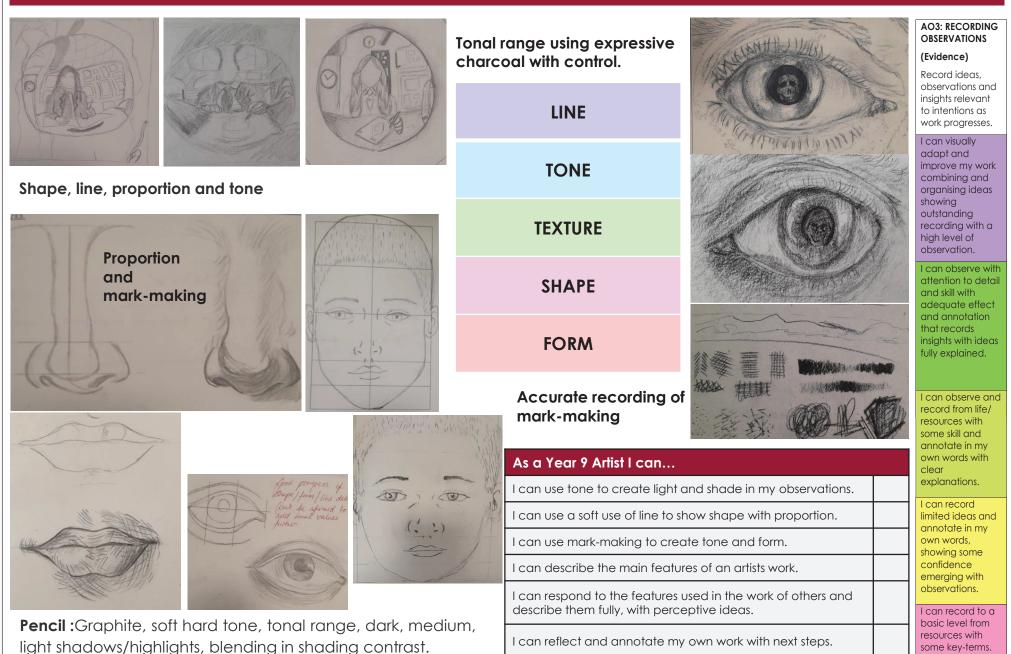
Art

	Art   Botanical Art  Topic Dictionary						
Image	Word	Definition	In a sentence				
	cross-hatching	Cross-hatching is the layering of multiple lines to achieve tone. Artists draw in the direction of the shape they are drawing to achieve a realistic and lifelike appearance. The more layers you use the darker the tone achieved. Notice the curved lines in the folds of skin and lighter areas that have no lines.	I could improve my control of <b>cross</b> <b>hatching</b> to create marks that are closer together creating darker areas, adding to the illusion of a 3D form.				
	composition	A portrait's composition is the sum of how you place all the parts within it: use of the edges of the frame, use of shapes within the frame, the prominence of any foreground/background details, the position of the subject within the frame, even the shape of the frame itself.	Within the <b>composition i</b> n Parmigianino's portrait the artist is playing with illusion through compositional tricks.				
631	depth	The illusion of space / solidity. Using tone in your allows you to create pictorial depth or space .	I have observed <b>depth</b> of tone using my 2B lead pencil, to show the mid and dark tones in my recording of the facial features.				
Ser.	form	In relation to art the term form has two meanings: it can refer to the overall form taken by the work – its physical nature; or within a work of art it can refer to the element of shape among the various elements that make up a work	I have observed shape and <b>form</b> in my drawing of the nose, however my tone needs greater depth and variation to improve the 3D appearance of the <b>form</b> .				
	line	Lines that are used to define the shape or form of an object or a figure, or to highlight key details of an image are called contour lines (or outlines).	I have used a soft use of <b>line</b> in mapping out my portrait and in my observation of the facial features.				
	mood	Mood is the atmosphere in a painting, or the feeling expressed. Is the art tranquil, or is it dark and disturbing? Tone refers to the lightness or darkness of colours used, which can help to create a sense of depth or distance in art. Artists use light and dark colours to convey a mood or an emotion.	The <b>mood</b> of the piece is dark and subdued, due to its dark colour palettes and exaggerated features.				

## Art | Botanical Art | Topic Dictionary

Image	Word	Definition	In a sentence
(C) (C)	perspective	Perspective helps create the illusion of realism, space and depth in a two-dimensional work. It allows artists to create more lifelike images that appear three-dimensional. Ultimately, this enhances viewer engagement by drawing them into the painting, creating a more immersive experience.	have observed and used <b>perspective</b> in my recording of a portrait to create a 3D appearance observing shape and form.
	proportion	Proportion refers to the dimensions of a composition and relationships between height, width and depth. How proportion is used will affect how realistic or stylised. something seems. Proportion also describes how the sizes of different parts of a piece of art or design relate to each other.	I have observed accurate <b>proportion</b> of the size and shape of the head with accompanying features.
	scale	Scaling is the process of adjusting proportions and dimensions, is pivotal in pencil portrait drawing. It ensures that the final artwork accurately represents the subject, capturing facial features and expressions with precision.	I have a proportional representation of a human head to <b>scale.</b>
	shape	Shape is an area enclosed by a line. It could be just an outline, or it could be shaded in. Shapes can be geometric or irregular.	In my drawings of the facial features II have recorded a good use of varied <b>shape</b> with a soft and controlled use of line.
	symmetry	To be equal on both sides. You'll see both sides of your face are pretty symmetrical. This is known as bilateral symmetry and it's where both sides either side of this dividing line appear more or less the same.	have observed a good use of <b>symmetry</b> in my proportional drawing of the portrait with even tone.
	tone	This refers to the lightness or darkness of something. This could be a shade or how dark or light a colour appears. Tones are created by the way light falls on a 3D object. The parts of the object on which the light is strongest are called <b>highlights</b> and the darker areas are called <b>shadows</b> .	I am developing my application of <b>tone</b> in my observation of the face, using the rubber to create light areas against varied <b>tone</b> .

### Skills Guide: AO3 Recording Observations: Exemplars



## French | My city | Topic Dictionary

Image	Key Word	Definition	In a Sentence
	une bibliothèque	A library	Dans mon collège, il y a <b>une bibliothèque.</b>
	un centre commercial	A Shopping centre	Dans ma ville il y a <b>un centre commercial</b> modèrne.
	un cinéma	A cinema	Le cinema est en face de la piscine.
	un hôpital	A hospital	Dans ma ville il n'y a pas d' <b>hôpital.</b>
	Un stade	A stadium	J'aime visiter <b>le stade</b> avec mon copain.
	une librairie	A book shop	ll n'y a pas de <b>librairie</b> dans ma ville.
	une boulangerie	A bakery	Dans ma ville il y a <b>une</b> petite <b>boulangerie.</b>
	un parc	A park	Il y a <b>un parc</b> fantastique.
	un magasin	A shop	ll y a <b>un</b> petit <b>magasin</b> .
	un supermarché	A supermarket	Où-est le supermarché, s'il vous plaît??
	une gare	A train station	Où-est la gare, s'il vous plaît?

	French   My city   KO								
<u>Ch</u>	eck for	Step 1: Saying where you live				Step 3: Giving opinions			
	<u>owledge:</u>	J'habite à Londr	res	I live in London		Je pense que		I think that	
	l can say	J'habite en Ang	leterre	l live in England		Je dirais que		I would say that	
	where I live	On habite		We live		À mon avis		In my opinion	
	(Step 1)	Une ville		A town/city		Ma ville est		My city is	
	lcan	Une maison		A house		grand(e)	big	intéressant(e)	interesting
	describe 	Un appartement	ł	A flat/apartment		petit(e)	small	barbant(e)	boring
	my city	Avec ma famille		With my family		amusant(e)	fun	passionant(e)	exciting
	(Step 1+2)					divertissant(e)	entertaining	fantastique	fantastic
	l can give	Step 2: Describing your cit		-		affreux(se)	awful	terrible	terrible
	opinions on	Dans ma ville il y	y a	In my city there is		historique	historic	propre	clean
	my local	Dans ma ville il n'y a pas de		In my city there isn't		sale	dirty	moderne	modern
	area (Step 2	Ma ville est / r	n'est pas…	My city is/isn't			,		
	+ 3)	Dans ma ville or	n peut	In my city you can		Step 4: Elev	vate your se	ntences with c	onnectives
	l can use	Un parc	A park	Faire du shopping	To go	aussi Also		Also	
	more	onpare	Apark		shopping	en plus		In addition	
	complex ph	Un sum sums mus h é	A supermarket	Faire du sport	To do sport	mais		but	
	rases in my	supermarché				et		and	
	writing.	Un cinéma	A cinema	Manger au restaurant	To eat in a restaurant	ou		Or	
	(Step 4)				To watch a	ού		-	
		Un hôpital	A hospital	Regarder un film film				Where	
		Un centre	A shopping		To take photos	cependant		However	
		commercial	centre	Prendre des photos	To take photos	Par contre		on the other ha	nd

## French | My city | Skills Guide

<u>Have you used...</u>

1. a verb?	2. a noun?	3. a connective?	4. a complex phrase?	5. a noun?
Dans ma ville il y a (In my town/city there is) Dans mon quartier il y a (In my neighbourhood) Dans ma banlieue il y a (In my suburb there is )	un cinéma (a cinema) centre) une pisicine (a pool) un hôpital (a hospital) une boulangerie (a bakery) une église (a church) un hôtel de ville (a town hall) des magasins (some shops) un centre commercial (a shopping		<ul> <li>il n'y a pas de (there is not)</li> <li>si c'était posible, je</li> <li>préférerais avoir (if it were possible, I would prefer to have)</li> <li>je voudrais avoir (I would like</li> </ul>	un cinéma(a cinema) un centre commercial (a shopping centre) une pisicine (a pool) un hôpital (a hospital) une boulangerie (a bakery) une église (a church)
Dans ma ville on peut (In my town you can) Dans mon quartier on peut (In my neighbourhood you can) Dans ma banlieue on peut (In my suburb you can)	faire du shopping (do shopping) faire du sport (do sport) aller au cinema (go to the cinema) visiter le musée (visit the musuem) faire de la randonnée (go hiking) sortir avec des amis (go out with friends) <b>Example:</b> Dans ma ville il y a un cinema mais on ne peut pas faire de la randonnée. (In my city there is a cinema but you cannot go hiking)/	mais (but) et (and) cependant (however) par contre (on the other hand)	on ne peut pas (you cannot) si c'était posible, je préférerais (if it were possible, I would prefer) je voudrais (I would like)	un hôtel de ville (a town hall) des magasins (some shops) faire du shopping (do shopping) faire du sport (do sport) aller au cinema (go to the cinema) visiter le musée (visit the musuem) faire de la randonnée (go hiking)
				<b>sortir avec des amis</b> (go out with friends)

# French | My city | Skills Guide

### Success Criteria:

Have you introduced yourself?

- Can you describe **where** you live?
- □ Who do you live with?
- Can you describe your house? Have you used a variety of adjectives? Could you add an intensifier?
- Can you describe your local area? Have you included a range of nouns?
- Can you include where you would like to live? Have you used any complex structures?

		une petite maison ville qui s'appelle L parce que c'est trè	elle Erica et j'habite dans avec mes parents dans une ondres. J'aime ma ville ès intéressant. Dans ma ville t un centre commercial. a pas de parc.	
Connectives used to link		Extended answer:		
ideas		Bonjour, je m'appelle Erica et j'ai dix ans.		
			famille dans un appartment . Dans ma ville il y a	
Variety of			On peut visiter le parc où il	
adjectives		y a des magasins c	assez intéressants. J'aime ma	
			peu sale. Donc, je voudrais	
Intensifiers	, s	habiter à la campagne parce que c'est plus relaxant.		
used to add			/	
detail			Fancy phrase used to	
			upgrade answer.	

Simple answer:

## French | Environmental problems | Topic Dictionary

Image	Key Word	Definition	In a Sentence
C→ ☆ ♥ ↓ ♥♥	l'environnement	the environment	Je m'inquiète beaucoup pour <b>l'environnement.</b>
A A	le climat	the climate	Le climat est touché par la circulation.
(F)	la planète / la terre	the planet /the earth	La planète est en danger.
íí	la pollution	the pollution	Il faut organiser des manifestations contre <b>la pollution</b> .
	la circulation	the traffic	L'environnement est menacé par la circulation.
- <del>برج</del>	la sécheresse	the drought	La sécheresse est le problème le plus important.
	les déchets / les ordures	the rubbish	On doit jeter <b>les déchets / les ordures</b> dans la poubelle.
	les inondations	the flooding	Dans mon pays, il y a beaucoup d' inondations.
548 5,5	le changement climatique	the climate change	Comment s'organiser face au <b>changement</b> climatique?
	le réchauffement de la planète	the global warming	On peut arrêter <b>le réchauffement de la planète.</b>
	les animaux en danger	the animals in danger	Partout dans le monde <b>les animaux sont en</b> <b>danger</b> de disparition.

	French   Solutions   Topic Dictionary						
Image	Key Word	Definition	In a Sentence				
	pour aider la planète	to help the planet	<b>Pour aider la planète</b> , on doit recycler plus.				
Ø	c'est nécessaire de reduire la pollution	It is necessary to reduce pollution	Pour sauver la planète, <b>c'est nécessaire</b> de reduire la pollution.				
	je recycle plus	l recycle more	En ce moment, <b>Je recycle plus</b> et surtout le plastique.				
	je trie mes déchets	I sort my rubbish	Tous les jours, <b>je trie mes déchets</b> pour sauver la planète.				
	je protège la planète	I protect the planet	Je protège la planète en étant végétarien.				
[ ( ( ( ( ( ( ) ( ( ) ( ( )))))))))))))	je réutilise les sacs en plastique	l reuse plastic bags	Je protège la planète car <b>je réutilise les</b> sacs en plastique.				
	j'achète des produits verts	I buy green products	Ma famille et moi, on <b>achète</b> toujours <b>des produits verts</b> .				
4 Jane 19	j'utilise les transports en commun	l use public transport	Pour aller au collège, <b>j'utilise les</b> transports en commun.				
次	je marche plus souvent	I walk more often	Je marche plus souvent pour réduire la pollution.				
(Min May)	je fais du bénévolat	l volunteer	Pour aider les gens, <b>je fais du benevolat.</b>				

## French | Environmental and Social Issues | KO

Check for	Step	<b>b 1:</b> Say wh	nat worries y	OU	Step 3: Giving solutions		
knowledge:	Le plus grand prob	blème	The biggest pro	oblem	Je fais beaucoup pour	l do a lot to	
🗆 I can say	Ce qui m'inquiète		What worries m	ıe	Pour sauver la planète	To save the planet	
what worries me	Maintenant, j'utilise vais	e / je fais / je	Now, I use / I d	o/lgo	Pour protéger l'environnement	To protect the environment	
(Steps 1+4)	ll y a des déchets	partout	There are rubb	ish everywhere	On peut changer le monde	We can change the world	
I can talk about	Les effets du chang climatique	gement	The effects of c	climate change	On peut améliorer la situation	We can improve the situation	
problems	-				Organiser des manifestations	To organise protests	
and give solutions	Les gens pensent que	People think that	La destruction	destruction	Je fais de mon mieux	I do my best	
(Steps 1-4)	Lutter contre	Fight against	La menace	threat	J'ai l'intention de	l intend to	
	Le recyclage	rcycling	S'organiser	To get organised	Step 4: Elevate your se	entences with time markers	
I can give justified	La protéction	protection	En étant	By being	Maintenant	now	
opinions (Step 1-4)	Step 2: Talk about social issues				En ce moment	Right now.	
(Siep 1-4)	J'aide		l help		Tous les jours	Every day	
I can use a range of	ll faut aider		You must help		Pendant le weekend	At the weekend	
time			•	h = r = =   = = =	La semaine dernière	Last week	
markers	Les gens	10 0 0 10 0 0	Les sans abris	homeless	L'année dernière	Last year	
(Step 4)	La faim	hunger	Le / la bénévole	volunteer	Récemment	recently	
	La guerre	war	Au chômage	unemployed	A l'avenir	In the future	
	La violence	violence	La société	society			

## French | Environment | KO

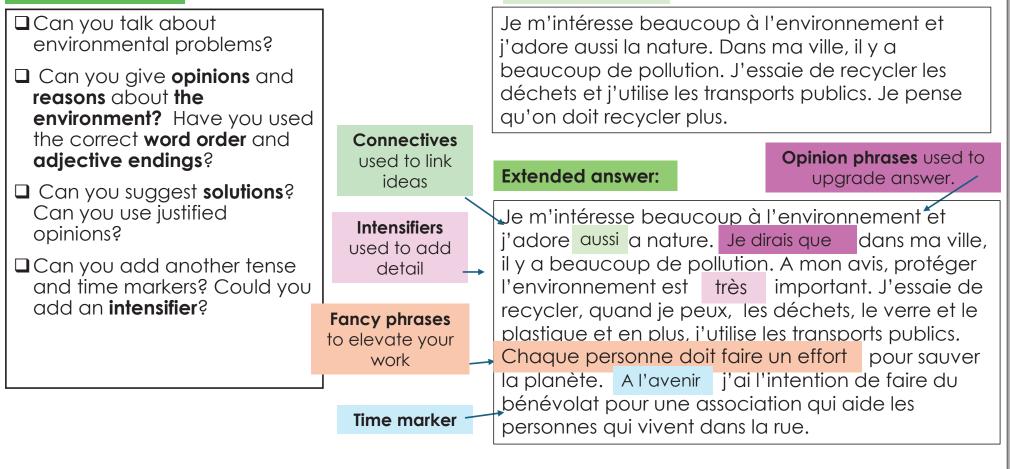
Have you used?

1. a time marker?	2 . a sentence starter?		3. a noun?	4. a connective?	5. reason?	6. a negative form?	7. a solution?	
En ce moment (At the moment) Actuellement (At the moment) De nos jours (Nowadays)	le problème le plus important (the most important problem)	c'est (is)	la pollution (pollution) la circulation (traffic) les sacs en plastique (plastic bags) les papiers dans la rue (papers on the street) les déchets (rubbish)	car (because) parce qu' (because) puisqu' (because / since) étant donné qu' (because)	<ul> <li>il y a (there is)</li> <li>trop de voitures dans la rue (too many cars in the street)</li> <li>trop de pollution dans les océans à cause du plastique. (too much pollution in the oceans because of the plastic)</li> </ul>	il n'y a pas (assez) de (there isn't) (enough) centres de recyclage (recycling centres) poubelles (bins) transports en commun (public transports)	On doit (we must) On devrait (we should) On peut (we can) On pourrait (we could) Il faut (you must)	recycler plus. (recycle(d) more) utiliser les transports en commun. (use(d) public transports) marcher plus souvent. (walk(ed) more often) construire plus de centres de
Past tense Quand j'étais petite (When I was little) Quand j'étais jeune (When I was young) Quand j'avais 10 ans (When I was 10)	ast tense       c'était (was)         and j'étais ite (When I s little)       Example: En ce moment, le probleme le plus important c'est la circulation car il y a beacoup de voitures. On devrait marcher plus. Souvent.         and j'avais 10 s (When I was       (At the moment, the biggest probleme)		<ul> <li>il y avait (there was)</li> <li>trop de voitures dans la rue (too many cars in the street)</li> <li>trop de pollution dans les océans à cause du plastique. (too much pollution in the oceans because of the plastic)</li> </ul>	il n'y avait pas (assez) de (there wasn't) (enough) centres de recyclage (recycling centres) poubelles (bins) transports en commun (public transports)	II faudrait (you should) On aurait dû (we should have) On aurait pu (we could have) II aurait fallu (we should have)	recyclage. (build (built) more - recycling centres) utiliser plus de sacs pour la vie (use(d) bags for life) avoir plus de poubelles dans les rues (have (had) more bins in the streets)		

# French | Environment | Skills Guide

Simple answer:

### Success Criteria:



#### Curriculum Companions Year 9 Term Two

## Variations form | Skills guide |

Variation form is based on the theme (below) and a set of variations on that theme. Here is a quick guide to performing and composing a set of variations:

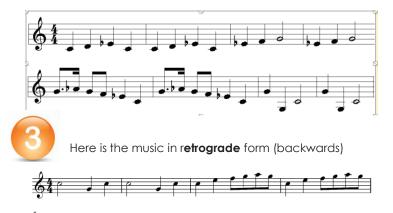
1

2

The theme is the unchanged, original version of the tune/melody.

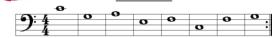


Next, play the theme in the **minor key** by changing each E to Eb and A to Ab. This type of variation involves changing the **tonality** from **major** to **minor**. Notice that the rhythm has also become dotted in bars 5 and 6. Can you spot any other small changes?





Another type of variation is **ground bass.** Pachelbel wrote this famous piece in about 1680



Each time the ground bass repeats a new, varied layer is added over the top:



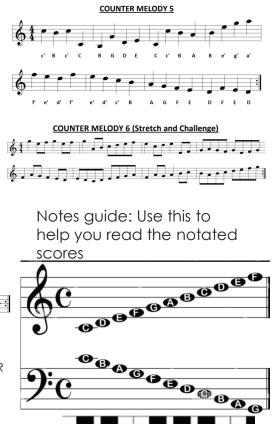


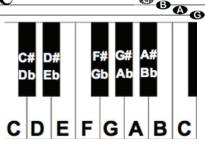




Composing task: Using EITHER Frere Jacques OR Pachelbel's canon, **compose** your own set of variations/ground bass variations Use the following ideas or create your own!

- 1) Adding or taking away notes
- 2) Changing notes or rhythm
- 3) Changing the instrumentation
- 4) Playing in canon (as a round)
- 5) Changing the structure





## Skills Guide | What will I be assessed on in Music?

## Practising and

**Performing** This is your opportunity to show that you can **sing/play** a simple theme that you have learnt in front of your teacher and peers on the keyboard or Ukelele. You will need to think carefully about what makes a successful and convincing performance! Below are some things to consider:

Performing skills: You will learn to perform as

- A whole class
- In groups
- As a soloist

You should try to perform with:

- Accuracy
- Fluency
- Expression (Dynamics, articulation,
- phrasing, sense of ensemble)
- A sense of style

Rehearsing skills: You will learn to

- Work independently
- Set up your equipment and space swiftly and safely
- Organise your time effectively
- Listen to and support people in your group
- Respond to feedback, setting goals
   for improvement
- Evaluate yours and others' work using key words

# Composing and arranging

**Composing** means **creating** music from scratch. When you compose a set of variations based on a given theme you must be sparing with your ideas (don't get too complicated). Once you have mastered the technique in each variation you can get really creative!

Composing and arranging skills: You will learn to create a set of at least two variations on a given theme During the creation process you will consider:

How you can vary the theme using

Change of tonality (major to minor) Melodic alteration Rhythmic alteration Retrograde Passing notes

You will also consider how musical elements such as melody, rhythm and tempo are combined in your creation.

### Istening to and identifying music

You need to listen to a set of variations and spot the changes from the original theme. You will use the skills you have mastered in the performing and composing element of the course to recognize the same techniques in a range of classical and popular pieces

Listening skills: You will learn to use your listening skills during independent practice/ rehearsal sessions to monitor your strengths and areas for development. Your ears are your most important tool and you will need to listen critically every time you play your instrument.

Is your Keyboard-playing in time and are you playing each note with an even tone so that all the keys go down together at the same time?

Is your percussion part in time?

Is the balance correct in your performance?

Finally, can you hear the difference between each of the variations and between major and minor tonalities?

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### Exploring your thinking

Learning about theme and variations is important because it helps us to understand how much music can be generated using a simple starting point.

Exploring and researching skills: You will explore a range of different pieces from different periods in music history, all of which use theme and variations. You will explore the difference between variations and describe these using key terms from year 7. 8 and 9 as well as new words from this term. You will be tested on your ability to describe what you hear using words from the glossary, expressing your opinion about whether you think the music is successful and why.

#### Examples are:

<u>Pachelbel's canon</u> <u>Rachmaninov Rhapsody on a</u> <u>theme of Paganini</u> Mozart Ah je vous dirai maman

	Variations form   Topic Dictionary							
Image	Key term	Definition	In a sentence					
A (Particles 1) (Particles 2) (Particles 3)	Variation form	A type of structure in music in which the music is all based on a main melody or theme	Benjamin Britten wrote some <b>Variations</b> on the theme of Purcell called "The Young person's guide to the orchestra"					
A (Thems)	Theme	The main, original version of the melody, upon which the variations are based	Mozart wrote a set of variations on the <b>theme</b> of "Twinkle, twinkle little star"					
$\odot$	Tonality	Major or minor	This term you will learn how to change the <b>tonality</b> of a theme from major to minor by varying a few notes					
-0 0+	Retrograde	Backwards	When a theme is played backwards it is <b>retrograde</b>					
6	Canon	When one part starts and the other joins in with the same tune later	A <b>Canon</b> is also known as a "Round"					
Å Å	Alteration (melodic)		Melodic alteration happens when you change or vary one or two notes of the theme					
	Alteration (rhythmic)		<b>Rhythmic alteration</b> happens when you change or vary one or two notes of the rhythm					
	Passing notes	In-between or "stepping stone" notes	<b>Passing notes</b> happen when you add notes in between gaps in the theme					
	Ground Bass	The bass line upon which each variation is layered	Pachelbel wrote a famous piece using a <b>ground bass</b> , that repeated over and over again with more and more layers over the top					

#### Music | Variations | Assessing Progress As a year 9 musician I know how to: Developing my skills in Music □ I can play the theme and variations CONFIDENTLY and with **EXPRESSION** on my instrument □ I can compose at least two variations using a range of techniques such Perform an entire theme DATE as change of tonality, passing notes, rhythmic and melodic alteration using notation/from memory and retrograde Work independently □ I can play the theme and variations with some accuracy and fluency on DATE in groups to compose a set my instrument of variations □ I can compose at least two variations using a range of techniques such as change of tonality and canon Recognise all the notes of □ I can play the theme and part of a variation on my instrument DATE the keyboard □ I can compose at least one variation using a change of tonality □ I am gaining confidence but are not fluent yet Identify variation techniques such as change of tonality, melodic/rhythmic alteration, DATE □ I can play the theme with some help passing note, canon, □ I can compose a very simple variation using a drone or change of retrograde, drone tonality. R □ I need help to get started Evaluate own and others' work and respond DATE This is where you and your teacher can agree on a personalised target. This could to feedback positively include: Performing a solo in front of the class Composing an extended piece using music software Identify sections of a Presenting some research on variation form to the class popular song as DATE Intro/Verse/chorus/Middle 8/ outro

## Spanish | Environmental problems | Topic Dictionary

Image	Key Word	Definition	In a Sentence
<u>ب</u> ب ا	el medio ambiente	the environment	Estoy muy preocupado por <b>el medio ambiente.</b>
(J) E	el clima	the climate	El clima se ve afectado por el tráfico.
(F)	el planeta / la tierra	the planet /the earth	El planeta está en peligro.
í	la polución/la contaminacion	the pollution	Hay que organizar manifestaciones contra <b>la</b> <b>contaminación</b>
H CAR	el tráfico	the traffic	El medio ambiente está amenazado por <b>el tráfico.</b>
-भू- रूत्र	la sequía	the drought	La sequía es el problema más importante.
A.	la basura	the rubbish	Debemos tirar <b>la basura</b> en el basurero
	las inundaciones	the flooding	En mi país, hay muchas <b>inundaciones</b>
	el cambio climático	the climate change	¿Cómo organizarse frente al <b>cambio</b> climático?
	el calentamiento global	the global warming	Podemos detener el <b>calentamiento global.</b>
A CONT	los animales en peligro	the animals in danger	En todo el mundo, <b>los animales están en</b> <b>peligro</b> de extinción.

Spanish  Solutions  Topic Dictionary						
Image	Key Word	Definition	In a Sentence			
	Para ayudar al planeta	to help the planet	Para ayudar al planeta, debemos reciclar más			
	Es necesario reducir la contaminación	It is necessary to reduce pollution	Para salvar el planeta, <b>es necesario</b> reducir la contaminación.			
	Reciclo más	l recycle more	Actualmente, estoy reciclando más, especialmente el plástico.			
	Separo la basura	I sort the rubbish	Todos los días <b>separo la basura</b> para salvar el planeta.			
	Cuido el planeta	I protect the planet	Cuido el planeta siendo vegetariano.			
ি বি জি মু জি মু	Reutilizo las bolsas de plástico	vilizo las bolsas de plástico I reuse plastic bags				
	Compro productos ecológicos / verdes	I buy green products	Mi familia y yo siempre <b>compramos</b> <b>productos ecológicos/ verdes</b>			
	Uso el transporte público	l use public transport	Para ir al colegio, <b>uso el transporte</b> <b>público.</b>			
次	Camino más seguido	I walk more often	<b>Camino más seguido</b> para reducir la contaminación.			
(M) NAG	Soy voluntario	l volunteer	Para ayudar a la gente, <b>soy voluntario</b> .			
	1	1				

Adverbs of frequency	Activities	because it is important	Justification	
Siempre (always) Todos los días (every day) A diario (every day) Cada día (every day) Cada mañana (every morning) A menudo (often) A veces (at times) De vez en cuando (sometimes) Raramente (rarely)	<ul> <li>reciclo en casa (I recycle at home)</li> <li>reutilizo las bolsas de plástico (I reuse plastic bags)</li> <li>apago las luces (I switch off the lights)</li> <li>desconecto aparatos inactivos (I disconnect inactive devices)</li> <li>uso mi bici (I use my bike)</li> <li>uso el transporte público (I use public transport)</li> <li>camino (I walk)</li> <li>tomo una ducha en lugar de un baño (I have a shower instead of a bath)</li> <li>separo la basura (I separate the rubbish)</li> <li>utilizo bombillas ecológicas (I use energy saving lightbulbs)</li> <li>compro productos locales (I buy local</li> </ul>	porque es importante (because it is important) dado que es esencial (given that it is essential) ya que es imprescindible (since it is essential)	<ul> <li>ahorrar energía (to save energy)</li> <li>ahorrar agua (to save water)</li> <li>no malgastar energía (to not waste energy)</li> <li>no malgastar agua (to not waste water)</li> <li>no malgastar nuestros recursos natural (to not waste our natural resources)</li> <li>proteger el medio ambiente (to protect the environment)</li> <li>cuidar el planeta (to look after the planet)</li> <li>no dañar el medio ambiente (not to harm the environment)</li> </ul>	
<b>Casi nunca</b> (almost never)	products) compro productos orgánicos (I buy organic products)		<mark>ido</mark> , separo la basura <mark>dado que</mark> protéger el medio ambiente <mark>.</mark>	
Nunca (never)	protesto en un grupo ecológico (I protest in a green group)	(Often, I separate the rubbish given that it is essential to protect the environement		

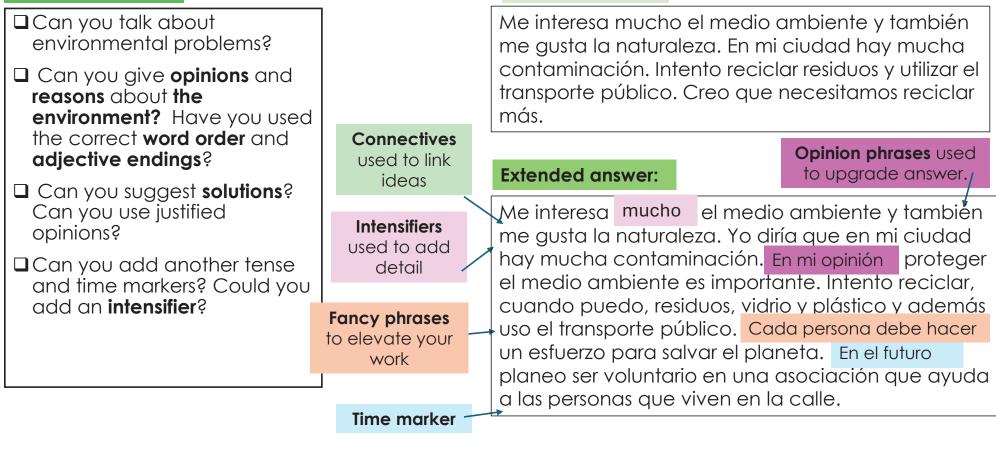
# Spanish | Environmental and Social Issues | KO

Check for	Ster	Step 1: Say what worries you			Step 3: Giving solutions		
knowledge:	el mayor problem	a	The biggest pro	oblem	Hago mucho para	l do a lot to	
🗆 I can say	Lo que me preocu	ıpa	What worries m	ne	Para salvar el planeta	To save the planet	
what worries me (Steps 1+4)	Ahora estoy usano haciendo / voy a	do / estoy	Now, I use / I d	o / I go	Para proteger el medio ambiente	To protect the environment	
	Hay basura por to	das partes	There are rubb	ish everywhere	Podemos cambiar el mundo	We can change the world	
I can talk about	Los efectos del ca	mbio climático	The effects of a	climate change	Podemos mejorar la situación	We can improve the situation	
problems and give	La gente piensa que	People think that	la destrucción	destruction	Organizar manifestaciones	To organise protests	
solutions	Luchar contra	Fight against	la amenaza	threat	Hago lo mejor que puedo	l do my best	
(Steps 1-4)	el reciclaje	rcycling	organizarse	To get organised	Tengo la intención de	l intend to	
I can give	la protección	protection	estando	By being	Step 4: Elevate your se	ntences with time markers	
justified opinions	Step	2: Talk abo	ut social issues		Ahora	Now	
(Step 1-4)	· · ·	i			En este momento	Right now	
🗆 I can use a	ayudo		help		Todos los dias	Every day	
range of	Hay que ayudo	ir	You must help		Durante el fin de semana	During the weekend	
time markers	La gente	people	Es sin hogar	homeless	La semana pasada	Last week	
(Step 4)	El hambre	<u> </u>	El / la	volunteer	El año pasado	Last year	
		,	voluntario/a.		Recientemente	recently	
	La guerra	war	En el paro	unemployed	En el futuro	In the future	
	La violencia	violence	La sociedad	society			

# Spanish | Environment | Skills Guide

Simple answer:

### Success Criteria:



## Spanish | My city | Topic Dictionary

Image	Key Word	Definition	In a Sentence		
	Una biblioteca	A library	En mi insti hay <b>una biblioteca.</b>		
	un centro commercial	a shopping centre	En mi pueblo, hay <b>un centro commercial grande.</b>		
	Un cine	A cinema	<b>Un cine</b> está en mi ciudad.		
	Un hospital	a hospital	En mi ciudad hay <b>un hospital.</b>		
	Un estadio	A stadium	Me gusta visitar <b>un estadio</b> con mi amigo		
	Una librería	A book shop	No hay <b>una librería</b> en mi pueblo.		
	Una pastelería	A bakery	En mi ciudad hay <b>una panadería</b> excellente.		
	Un parque	A park	Hay <b>un parque</b> fantástico.		
	Una tienda	A shop	Hay <b>una tienda</b> pequeña.		
運	un supermercado A supermarket		¿Dónde está <b>un supermercado</b> , por favor?		
	una estación de tren	A train station	¿Dónde está <b>la estación de tren</b> , por favor?		

## Spanish | My city | Skills Guide

### Have you used...

1. a verb?	2. )a noun?	3. a connective?	4. a complex phrase?	5. a noun?
En mi pueblo/ciudad hay (In my town/city there is) En mi barrio hay (In my neighbourhood there is)	Un cine (a cinema) un centro commercial (a shopping centre) una pisicina (a pool) un hospital (a hospital) Una panadería (a bakery) Una iglesia (a church) un ayuntamiento (a town hall) Unas tiendas (some shops)	pero (but)	No hay (there is not) si fuera possible, preferiría tener (if it were possible, l would prefer to have) Me gustaría tener (l would like to have)	Un cine (a cinema) un centro commercial (a shoppi ng centre) una pisicina (a pool) un hospital (a hospital) Una panadería (a bakery) Una iglesia (a church) un ayuntamiento (a town hall) Unas tiendas (some shops)
En mi pueblo se puede (In my town you can) En mi barrio hay (In my neighbourhood you can)	Ir de compras (do shopping) Hacer deporte (do sport) Ir al cine (go to the cinema) Visitar los museos (visit the musuem) Hacer senderismo (go hiking) Salir con amigos (go out with friends) <u>Example:</u> En mi ciudad hay un cine pero no se puede hacer senderismo. (In my city there is a cinema but you cannot go hiking)/	Y (and) Sin embargo (however)	No se puede (you cannot) si fuera possible, preferiría (if it were possible, I would prefer) Me gustaría (I would like)	Ir de compras (do shopping) Hacer deporte (do sport) Ir al cine (go to the cinema) Visitar los museos (visit the musuem) Hacer senderismo (go hiking) Salir con amigos (go out with friends)

## Spanish | My city | KO

heck for	Step 1: Say	Step 1: Saying where you live			Step 3: Giving opinions				
<u>10wledge:</u> I can say	Vivo en		I live in	l live in		Pienso que			
where I live	Vivimos en		We live in	We live in			I would say that		
(Step 1)	Un pueblo		A town		En mi opinión		In my opinion		
	Una ciudad		A city		(No) Es		It is / It isn't		
describe	Una casa	Una casa Un piso			Grande	big	Interesante	interesting	
my city	Un piso			An apartment		Small	Aburrido	Boring	
(Step 1+2)	Con mi familia	Con mi familia With m			Divertido	Fun	Emocionante	Exciting	
l can give	Step 2: Describing you		r citv		Entretenido	Entertaining	Fantástico	Fantastic	
opinions on	En mi ciudad hay		In my city there is		Fatal	Awful	Sucio -a	Dirty	
my local					Histórico -a	historic	Limpio -a	Clean	
area (Step 2	En mi ciudad no	•	In my city there isn't		Moderno -a	modern	Viejo -a	Old	
+ 3)	Mi ciudad es/no		My city is/isn't		Step 4: Elevate your sentences with connectives				
l can use	En mi ciudad se	puede	In my city you can						
	Un parque	A park	Ir de compras	Go shopping	También		Also		
more	Un	A supermarket	Hacer deporte	Do sport	Además		In addition		
complex ph	supermercado	Noupointaixot		Dooport	Sin embargo	Sin embargo		However	
rases in my	Un cine	A cinema	Comer en	Eat in	Pere		but		
writing.			restaurantes	restaurantes	Pero		but		
(Step 4)	Un hospital	A hospital	Ver películas	Watch films	Y		and		
	Un centro commercial	A shopping centre	Sacar fotos	Take photos	0		or		

# Spanish | My city | Skills Guide

### Success Criteria:

Have you introduced yourself?

- Can you describe **where** you live?
- Can you describe your house? Have you used a variety of adjectives? Could you add an intensifier?
- Can you describe your local area? Have you included a range of nouns?
- What was your area like in the past?
- Can you include where you would like to live? Have you used any complex structures?

	Simple answer:				
	Hola, me llamo Érica y vivo en una casa grande con mis padres en una ciudad que se llama Londres. Me gusta mucho mi ciudad porque es muy interesante. En mi ciudad hay un cine y un centro commercial. Sin embargo, no hay parque.				
Used to link	Extended answer:				
ideas	Hola, me llamo Érica y tengo diez años. Vivo				
	con mi familia en un piso bonito en el centro				
Variety of	de la ciudad. En mi ciudad, hay mucho que hacer como visitar el parque o hay unas				
adjectives	tiendas bastante interesantes. Me gusta mi				
	barrio pero es un poco sucio, pero en el				
Intensifiers used to add	pasado era muy limpio. Por lo tanto, me gustaría vivir en el campo porque es muy relajante.				
detail	Fancy phrase used to				

upgrade answer.

## anthem

