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# How to learn over time

### Successful Learning Takes Place Over Time

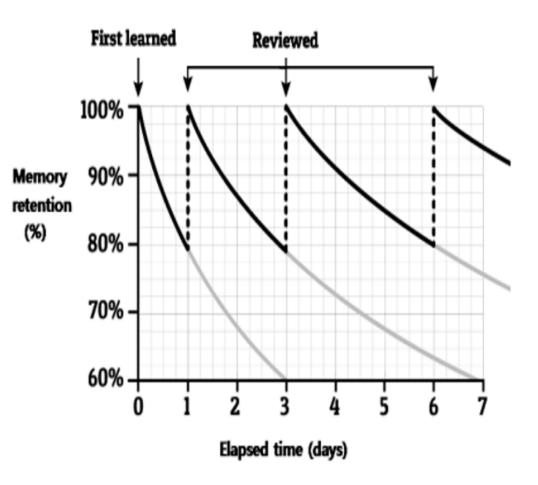


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam. Everything leading up to this point is part of the process of improving. It's about the longterm rather than the short-term, which also means there are no quick fixes. During this period, it's okay to make mistakes; it's okay to feel frustrated. What matters is what you do about it.

#### Space out your learning on a subject



Spacing out your learning over time is far more effective than last-minute cramming. This is based on research into how we forget and how we remember. The speed at which we forget something will depend on many factors such as the difficulty of the material, how meaningful it was to us, how we learned it and how frequently we relearn or remember it. The last factor tells us that when we learn something for the first time, we need to review it quickly afterwards. The more times we force ourselves to remember something, the longer the gap between reviews, which the diagram below illustrates nicely. The Leitner system and Cornel Notes mentioned earlier provides a wonderful way of achieving this, but the principle applies to all of the learning strategies mentioned in this booklet.



# **Revision Strategies**

## List It

This is a simple free recall task that is very versatile. It can feel challenging, but this is a good thing, and it provides clear feedback on what you do and don't know. Choose a topic, set yourself a time limit and...

- List as many keywords as you can
- List as many facts as you can
- List as many key events/quotes/individuals as you can
- List as many causes of X as you can
- List as many consequences of Y as you can

### Flashcards



Flashcards have the potential to be a powerful learning aid. However, how successful this is will depend on the thought you put into making them in the first place and then how they're used. It's very important to remember that they're for testing, not summarising.

## Mapping



Mapping is a brilliant way of organising and learning information, demonstrated on various pages in this booklet. It helps you break down complex information, memorise it, and see the connections between different ideas.

## Self-testing



Research has shown that every time you bring a memory to mind, you strengthen it. And the more challenging you make this retrieval, the greater the benefit. Self-testing improves the recall of information, transfer of knowledge and making inferences between information. Equally, there are many indirect effects, such as a greater appreciation of what you do and don't know, which helps you plan your next steps.

# Flashcards



Flashcards are small sheets of paper or card with matching pieces of information on either side. They are a useful tool for learning facts and allow you to quickly check whether you have remembered something correctly.

## When making and using flashcards:

Do:

- ...make flashcards quickly.
- ✓ ...put a single piece of information of each flashcard.
- ...sort your flashcards according to your confidence with them (see below).
- ...test yourself on the flashcards from memory.

Don't:

Х

Х

х

Х

- ...spend more time making flashcards than actually using them.
- ...put lots of information onto each flashcard.
- ...revise the flashcards in the same order every time that you use them.
- ...only read through flashcards.

1861	groynes	osmosis	Where is the pharmacy?
Pasteur published his paper about germ theory.	A low wall on the coastline which slows longshore drift	Net movement of water from a high concentration to low concentration across a partially permeable membrane	Où est la pharmacie?

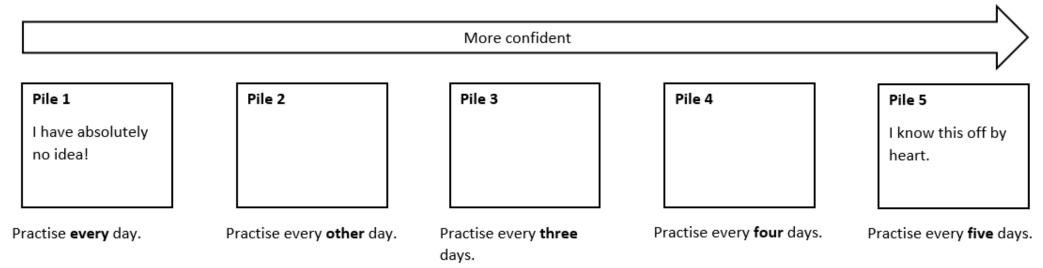
How to make flashcards:	
-------------------------	--

- You can by a set of flashcards or use a free website such as Quizlet.
- Find the information you want to put onto flashcards using your existing revision resources (e.g. a knowledge organiser).
- •Fold a piece of A4 paper into 10.
- •Write the questions on the top half of the paper.
- •Write the answers on the bottom half of the paper.
- •Cut the paper along the dotted lines shown here.
- •Fold the strips of paper so that the writing is on either side.

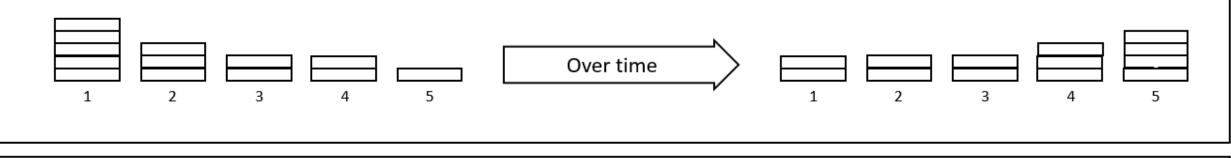
Definition 1	Definition 2	Definition 3	Definition 4	Definition 5
Answer 1	Answer 2	Answer 3	Answer 4	Answer 5

## How to use flashcards:

- 1. Test yourself using the flashcards.
- 2. As you test yourself, sort the flashcards into up to five piles according to how confident you are with the content.
- 3. Put the piles into numbered envelopes (1-5).
- 4. Test yourself on the different piles on different days (see below):



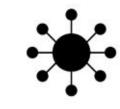
5. As you test yourself on the different piles, move the cards into different piles as you become more confident.

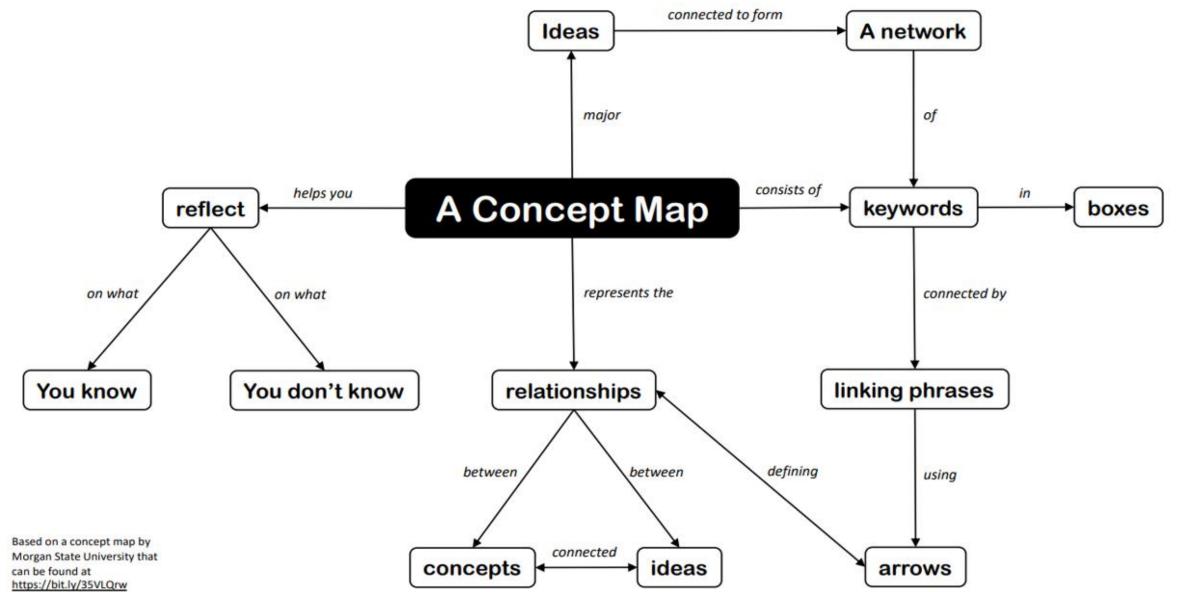


## **Useful resources:**

www.quizlet.com - This free website allows you to quickly create flashcards which you can print, use on a computer, or use on your phone.

# Mapping







#### Context

At the time the novel was written (1898) the British Empire was by far the most dominant colonial power on earth. So vast was the British Empire that at the end of the 19<sup>th</sup> century the sun literally never set on it. London was (as it still is) the political capital of the United Kingdom and was the most populous city on earth throughout the last half of the 19<sup>th</sup> century, becoming the first city to have more than 5 million inhabitants by the 1880's. It is therefore natural that London was chosen as the starting point for an imagined alien invasion.

Towards the end of the 19<sup>th</sup> century there was a very real fear that it was the 'end of an age' and that an apocalypse could begin. In Britain this was partly due to this period coinciding with the ageing of Queen Victoria who was almost 80 when the novel was published. The Victorian era had seen the country become the first in the World to industrialise and build the largest Empire the world had ever seen. Queen Victoria died in January 1901.

Other fears included the fear of mass immigration from other parts of the British Empire as all citizens of British colonies were also British citizens. HG Wells used his own experiences in the novel and explored fear of the unknown, paranoia and the possibility of the world ending. He also used the novel to explore his own reservations about imperialism and explore the fragility of civilisation, showing how it can break down when faced with a seemingly unbeatable adversary.





#### **Modern Context**

#### What is space exploration?

Space exploration is the investigation by a crew or by machines of the reaches of the universe beyond Earth's atmosphere. The use of the information gathered should benefit all humankind.

#### Why is it significant?

Forty years after the first landing on the moon by two American astronauts, the significance of that historical step of human exploration is very different from what it was at that time. Then, it was a clear demonstration of the supremacy of U.S. technology over the world, and a symbol of the U.S. identity. Forty years later, it is not any more a matter of the moon and the United States, but rather of planet Earth and humankind; twenty-seven astronauts have seen planet Earth as a small and fragile golf ball floating in the universe and, as a result, helped develop the understanding that our future can only be



global.





The Author		Timeline of Science Fiction
<ul> <li>H. G. Wells</li> <li>English novelist, journalist, sociologist, and historian H.G. Wells was a prolific writer best known for such <u>science-fiction</u> novels as <i>The Time Machine</i> (1895) and <i>The War of the Worlds</i> (1898). He also wrote comic <u>novels</u>,</li> </ul>	1726	<b>Gulliver's Travel</b> During his voyages the title character, Lemuel Gulliver, encounters utopian and dystopian societies as well as the flying island of Laputa, populated by scientists whose experiments are of no useful benefits
histories, <u>biographies</u> , social commentaries, and <u>short stories</u> . Wells wrote his main works during the period that preceded <u>World Warl</u> , as the <u>Victorian Age</u> was coming to an end. At the time people were questioning the social class system and the predetermined roles of males and females in society. Wells ensuraged revelt against Christian heliofs	1818	<b>Frankenstein: Modern Prometheus</b> Frankenstein is seen as a warning against the expansion of science without a moral context.
and females in society. Wells encouraged revolt against Christian beliefs and accepted codes of behaviour. In both his books and his personal life, he advocated for an almost complete freedom. Wells worked toward social equality, world peace, and what he considered to be the future good of humanity. Wells's first published book was in 1893. Two years later he published his first novel, <i>The Time Machine</i> . The book tells of a nameless Time Traveller who uses	1870	<b>Twenty Thousand Leagues Under the Sea</b> Captain Nemo and his undersea adventures on the Nautilus inspires real scientific development. In addition to imagining diving equipment, he expands on uses for a submarine.
an elaborate contraption to travel to the year 802,701. Scholars consider <i>The Time Machine</i> one of the earliest works of science fiction and the first with a "time travel" theme. <i>The Time Machine</i> was immediately successful, so Wells began to write a series of science-fiction novels. <i>The Island of Doctor Moreau</i> (1896), about a mad scientist's	1895	The Time Machine The late 19th Century witnesses the growth of new technologies, such as the steam engine, telephone and electricity. Against this backdrop, HG Wells introduces the idea of time travel.
experiments on animals, addresses such issues as <u>evolution</u> and <u>ethics</u> . <i>The Invisible</i> <i>Man</i> (1897) follows the life and death of a scientist who has gone mad. After learning how to make himself invisible, the scientist uses that ability to commit	1932	<b>Brave New World</b> Huxley imagines a dystopian world. His vision of the future questions where technology might take us.
crimes, including murder. Wells's 1898 book <i>The War of the Worlds</i> details a catastrophic conflict between humans and extraterrestrial "Martians."	1979	The Hitchhiker's Guide to the Galaxy Douglas Adams's series, originally written for radio, introduces humour to the genre by lampooning the jaded genre of the British space opera.





Key Words 🎾				
Colonialism	the policy or practice of acquiring full or partial political control over another country, <u>occupying</u> it with <u>settlers</u> , and <u>exploiting</u> it economically.			
Imperialisma policy of extending a country's power and influe through colonization, use of military force, or othe means.				
Literary heritage	Key texts that define a country's background and are seen as key texts worthy of study			
Exodus	A mass departure of people			
Evolution         The gradual development of something				
Pulsate	To expand and contract in regular intervals			
Astronomy	The branch of science that deals with objects in the sky such as planets and stars			
Bulk	The mass or size of something			
Steadfast	To not change or waver			
Convulse	Violent movement of the muscles which causes the body to distort			
Tumultuous	Making an uproar or loud, confused noise			
<b>Oppression</b> Prolonged cruel or unjust treatment or exercise of authority				
Exploitation	To treat someone unfairly to benefit from their work			

	Motifs				
Red	It is a colour to warn of danger. The colour red and imagery of blood and fire appear throughout the novel to reinforce the danger coming from the red planet,				
Noise and silence	Wells uses noise and silence in the book to set the tone, and the contrasts of noise and silence create an eerie mood in key parts of the book.				







	Themes	Key Quotes 🥏
The Arrogance of Humans	Every human character in The War of the Worlds displays a level of arrogance that leads to problems for them. It never occurs to Ogilvy that the flaming	This was the deputation. There had been a hasty consultation, and since the Martians were evidently, in spite of their repulsive forms, intelligent creatures, it had been resolved to show them, by approaching them with signals, that we too were intelligent.
	gas is cause for alarm because he cannot fathom the intelligence of anything that is not human. This same belief in human superiority leads people to ignore the initial news items and eyewitness accounts and to think that the authorities can resolve the problem quickly and easily. Despite	And before we judge them too harshly we must remember what ruthless and utter destruction our own species has wrought, not only upon animals, such as the vanished bison or dodo, but upon its inferior races. The Tasmanians, in spite of their human likeness, were entirely swept out of existence in the space of fifty years.
	advanced, highly evolved, and very intelligent, the government and people have faith in the strength of their military's weapons. ution The book is an homage to Darwin's theories of evolution and natural selection. At the time this book was written, Darwin's <i>On the Origin of</i>	In the end the red weed succumbed almost as quickly as it had spread. A cankering disease, due, it is believed, to the action of certain bacteria, presently seized upon it.
Evolution and Natural Selection		no writer expressed any idea that intelligent life might have developed there far, or indeed at all, beyond its earthly level since Mars is older than our earth it necessarily follows that it is not only more distant from time's beginning but nearer its end The immediate pressure of necessity has brightened their intellects, enlarged their powers, and hardened their hearts.
the Narrator that the Martians are further along the evolutionary process than humans. Their brains are more sophisticated and they wield more advanced levels of technology. It is ironic, then, thatNe hu wi un	Never before in the history of the world had such a mass of human beings moved and suffered together it was a stampede without order and without a goal, six million people unarmed and unprovisioned, driving headlong. It was the beginning of the rout of civilization, of the massacre of mankind.	



Outlier	A value that ' <b>lies outside</b> ' most of the other values in a set of data. An outlier is <b>much smaller or much</b> <b>larger</b> than the other values in a set of data.	12 10 0 0 0 0 0 0 0 0 0 0 0 0 0

Animal

Sources of secondary data include websites, newspapers, research article, census etc

I						
AVERAGE	PROS	CONS		ł	Advantages	Disadvantages
			Primary		n method known is known	Time-consuming to collect Expensive to collect
Mean	Includes every value in the calculation	Affected by 'extreme' values			n find answers to very ecific questions	
Median	Isn't affected by 'extreme' values	Doesn't include all the data	the data Data from some		obtain	Method of collection unknown Data might be out of date May contain mistakes
Mode	Isn't affected by 'extreme' values Only average that can be used with words	No use if all the data is different		Office for in the UK)	National Statistics ) can be more han data you collect	May come from an unreliable source May be difficult to find answers to specific questions
Primary - data that is collected first hand and analysed by the collector. Secondary - data collected by someone other than the person analysing it.						
Non-numerical/Qualitative Numerical/Quantitative						
Worded data			Discrete		Continuou	s
<ul><li>Colours</li><li>Days of the week</li></ul>						_
	Brands	Exact value	es		Measured quantities th	at are rounded

Number of pupils in a class

· The frequency an event happens

Score rolled on a die

Shoe size

Time

Mass

Length

Capacity



Averages from Frequency Tables

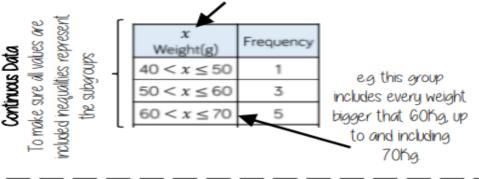
**Overage**: a measure of central tendency — or the typical value of all the data together

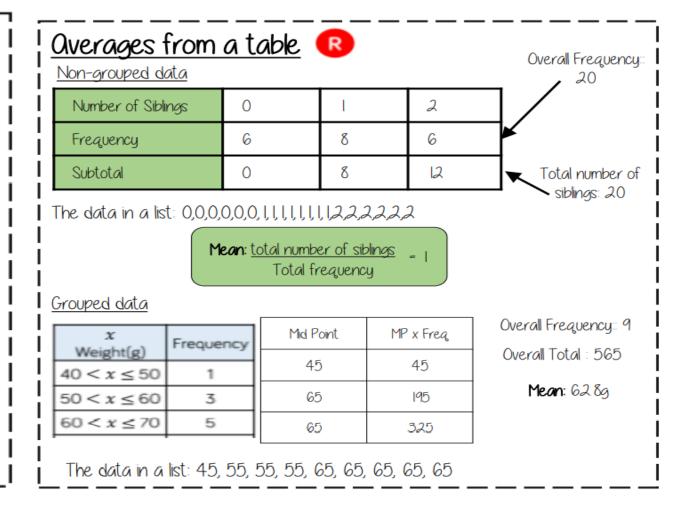
<u>Grouped Data</u> If we have a large spread of data it is better to group it. This is so it is easier to look for a trend. Form groups of equal size to make comparison more valid and spread the groups out from the smallest to the largest value.

Discrete Data The groups do not overbur

	Cost of TV (£)	Tally	Frequency
L	101 - 150	7HL II	7
- 2	151 - 200	THL THL I	11
<b>`</b>	201 - 250	THL.	5
l	251 - 300	111	3

We do not know the exact value of each item in a group — so an estimate would be bused to calculate the overall total (Midpoint)





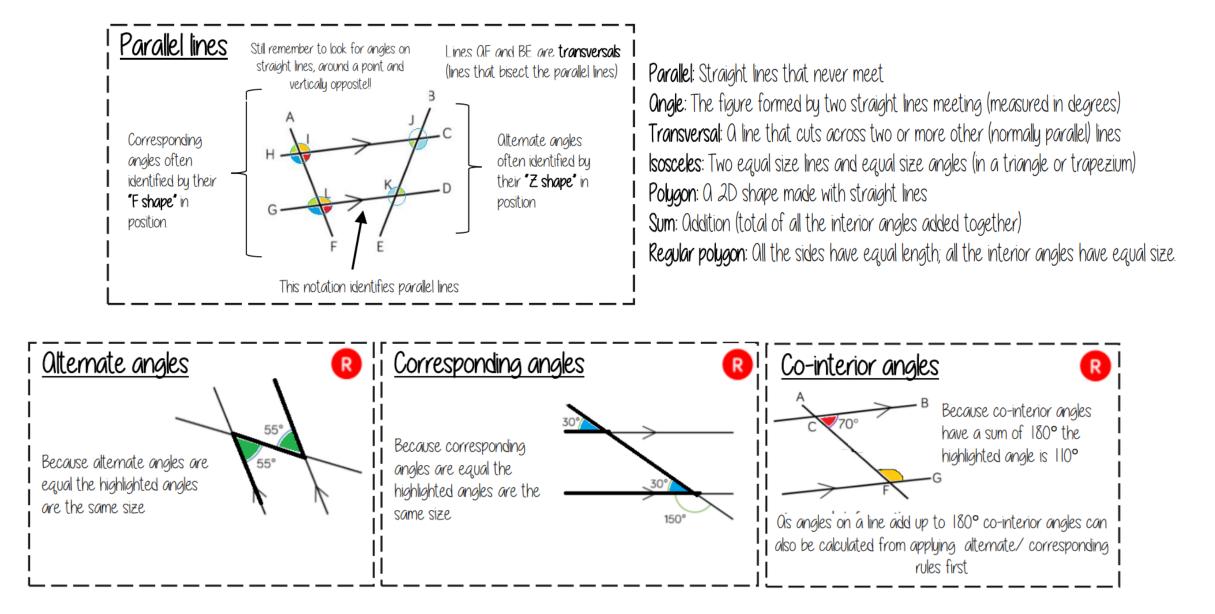
Quantitative: numerical data

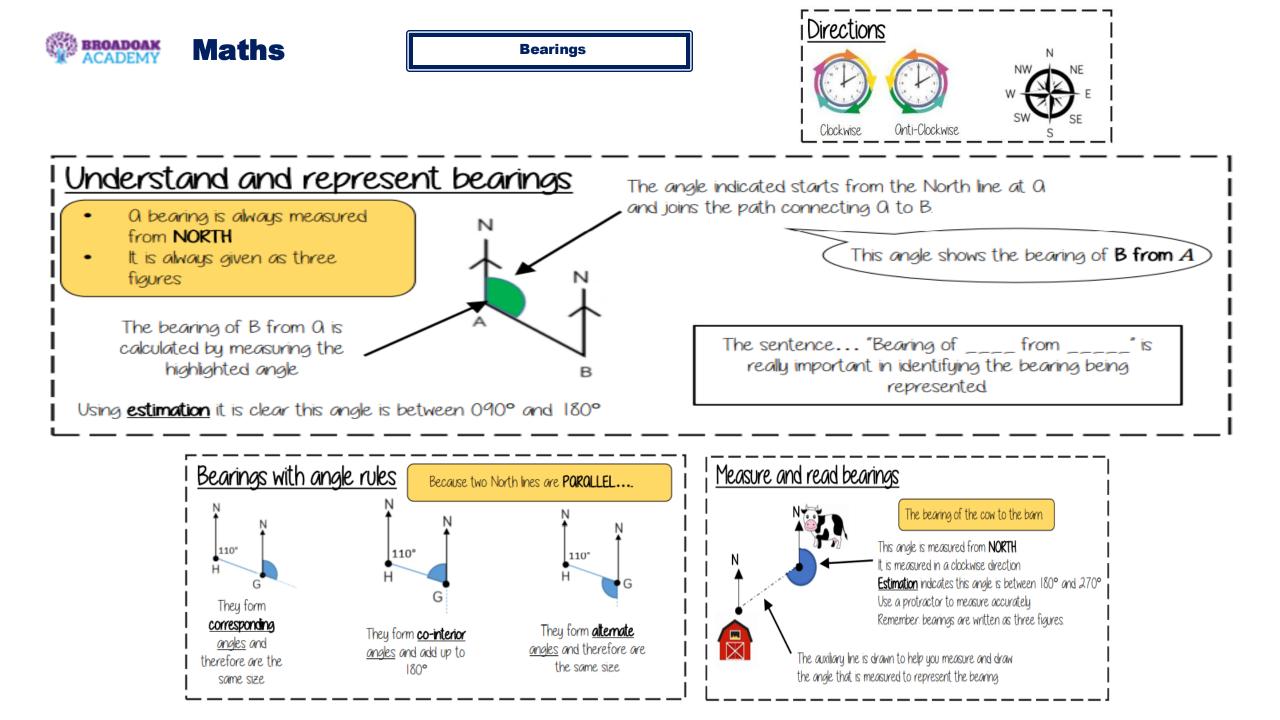
Qualitative: descriptive information, colours, genders, names, emotions etc. Continuous: quantitative data that has an infinite number of possible values within its range. Discrete: quantitative or qualitative data that only takes certain values.



Box Plots	The minimum, lower quartile, median, upper quartile and maximum are shown on a box plot.	Students sit a maths test. The highest score is 19, the lowest score is 8, the median is 14, the lower quartile is 10 and the upper quartile is 17. Draw a
	A box plot can be drawn independently or from a cumulative frequency diagram.	box plot to represent this information.
Comparing	Write two sentences.	'On average, students in class A were
Box Plots	1. Compare the averages using the	more successful on the test than class B
	medians for two sets of data.	because their median score was higher.'
	2. Compare the <b>spread</b> of the data using the	
	range or IQR for two sets of data.	'Students in class B were more
		consistent than class A in their test
	The <u>smaller</u> the range/IQR, the <u>more</u> <u>consistent</u> the data.	scores as their IQR was smaller.'
	You must compare box plots in the context of the problem.	



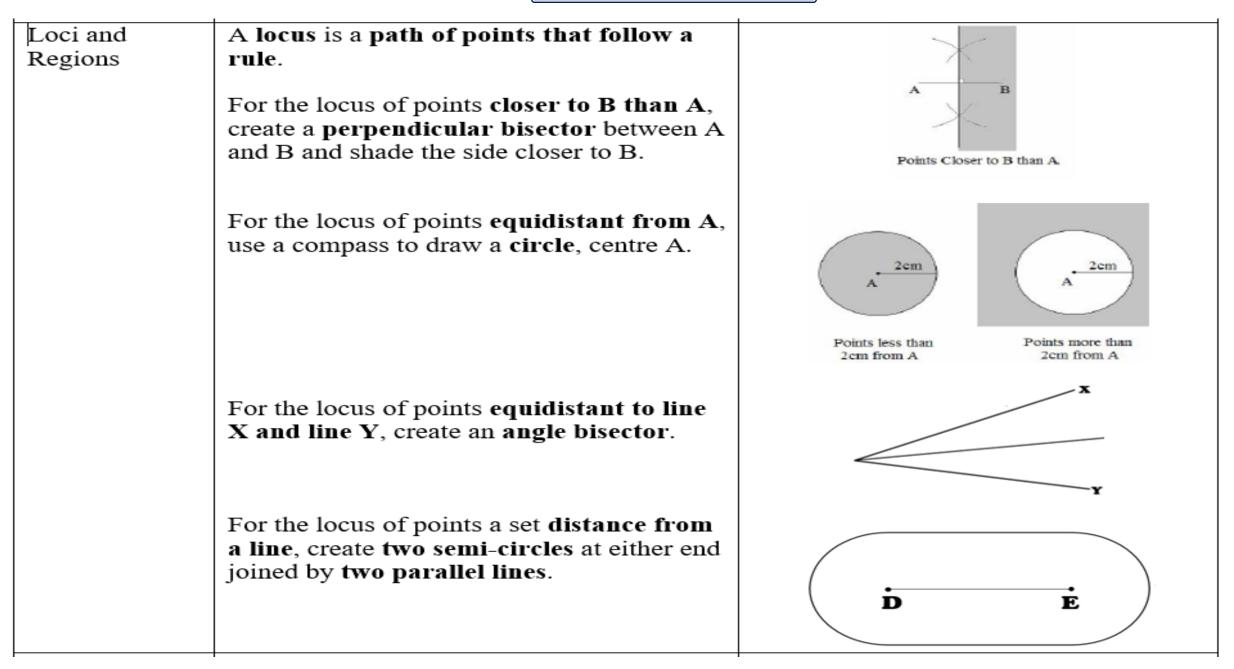


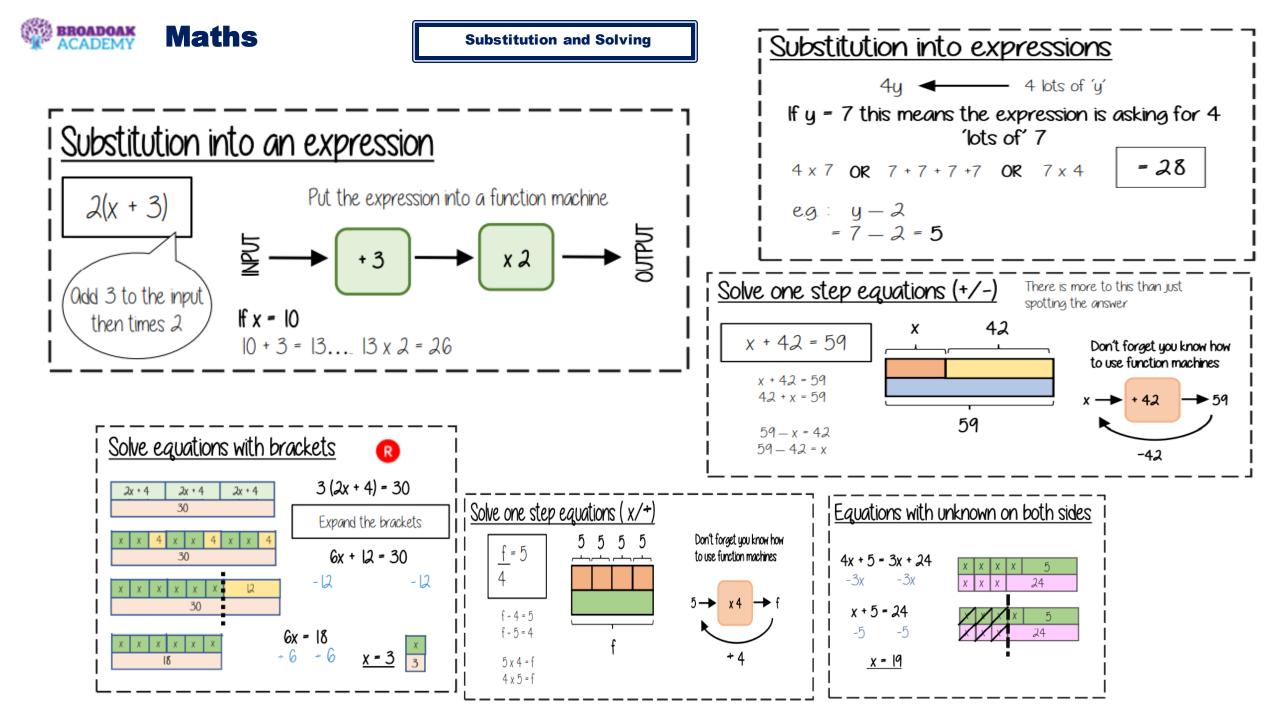


BROADOA ACADEM	🕈 Maths 📃 📃	Constructions			
Angle Bisector	Angle Bisector: Cuts the angle in half. 1. Place the sharp end of a pair of		Constructing Triangles (Side, Side, Side)	<ol> <li>Draw the base of the triangle using a ruler.</li> <li>Open a pair of compasses to the width of one side of the triangle.</li> <li>Place the point on one end of the line and draw an arc.</li> <li>Repeat for the other side of the triangle at the other end of the line.</li> <li>Using a ruler, draw lines connecting the ends of the base of the triangle to the point where the arcs intersect.</li> </ol>	
	<ul> <li>compasses on the vertex.</li> <li>2. Draw an arc, marking a point on each line.</li> <li>3. Without changing the compass put the compass on each point and mark a centre point where two arcs cross over.</li> <li>4. Use a ruler to draw a line through the vertex and centre point.</li> </ul>	Angle Bisector	Constructing Triangles (Side, Angle, Side)	<ol> <li>Draw the base of the triangle using a ruler.</li> <li>Measure the angle required using a protractor and mark this angle.</li> <li>Remove the protractor and draw a line of the exact length required in line with the angle mark drawn.</li> <li>Connect the end of this line to the other end of the base of the triangle.</li> </ol>	B 50° 7cm
Perpendicular Bisector	<ul> <li>Perpendicular Bisector: Cuts a line in half and at right angles.</li> <li>1. Put the sharp point of a pair of compasses on A.</li> <li>2. Open the compass over half way on the line.</li> <li>3. Draw an arc above and below the line.</li> <li>4. Without changing the compass, repeat</li> </ul>	Line Bisector	Constructing Triangles (Angle, Side, Angle)	<ol> <li>Draw the base of the triangle using a ruler.</li> <li>Measure one of the angles required using a protractor and mark this angle.</li> <li>Draw a straight line through this point from the same point on the base of the triangle.</li> <li>Repeat this for the other angle on the other end of the base of the triangle.</li> </ol>	y <u>42°</u> <u>51°</u> <u>7</u> 8.3cm
	<ul><li>from point B.</li><li>5. Draw a straight line through the two intersecting arcs.</li></ul>				



#### Loci





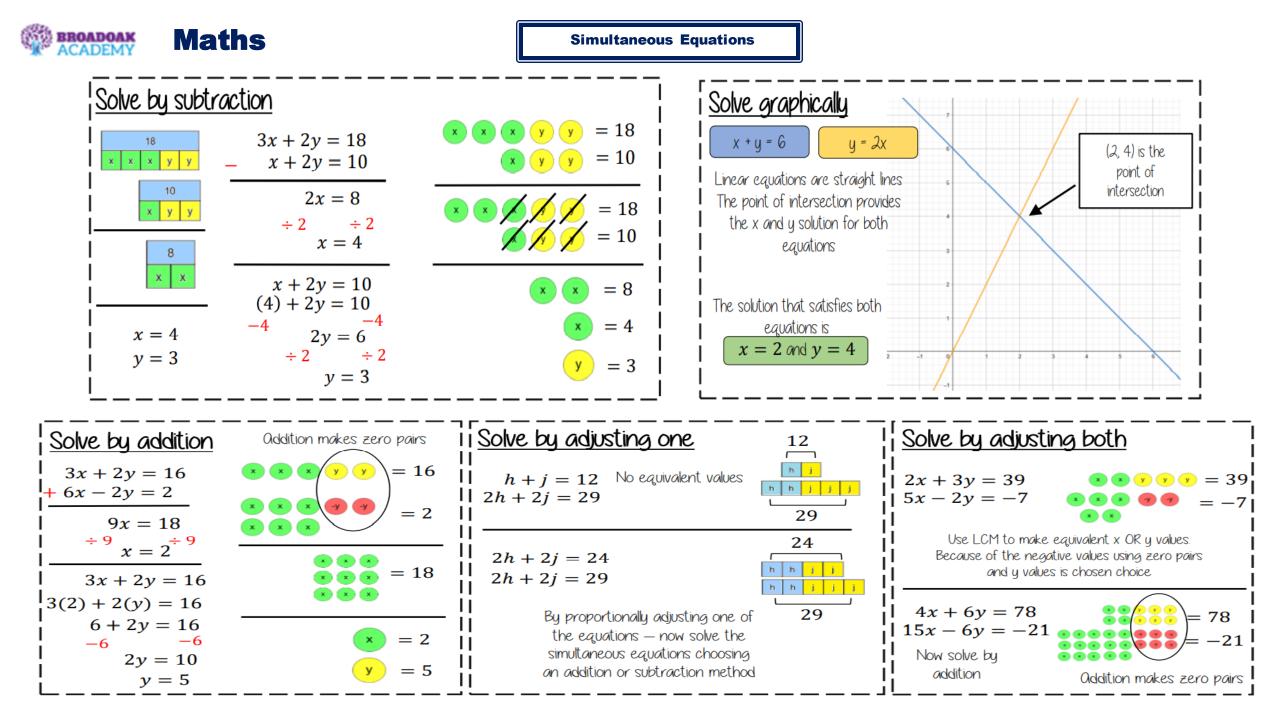


	1	1
Solving	1. Balance the coefficients of one of the	5x + 2y = 9
Simultaneous	variables.	10x + 3y = 16
Equations (by	2. Eliminate this variable by adding or	Multiply the first equation by 2.
Elimination)	subtracting the equations (Same Sign	
	Subtract, Different Sign Add)	10x + 4y = 18
	3. Solve the linear equation you get using	10x + 3y = 16
	the other variable.	Same Sign Subtract (+10x on both)
	4. Substitute the value you found back into	y = 2
	one of the previous equations.	
	5. Solve the equation you get.	Substitute $y = 2$ in to equation.
	6. Check that the two values you get satisfy	
	both of the original equations.	$5x + 2 \times 2 = 9$
		5x + 4 = 9
		5x = 5
		x = 1
		Solution: $x = 1, y = 2$
		Solution x 1, y L

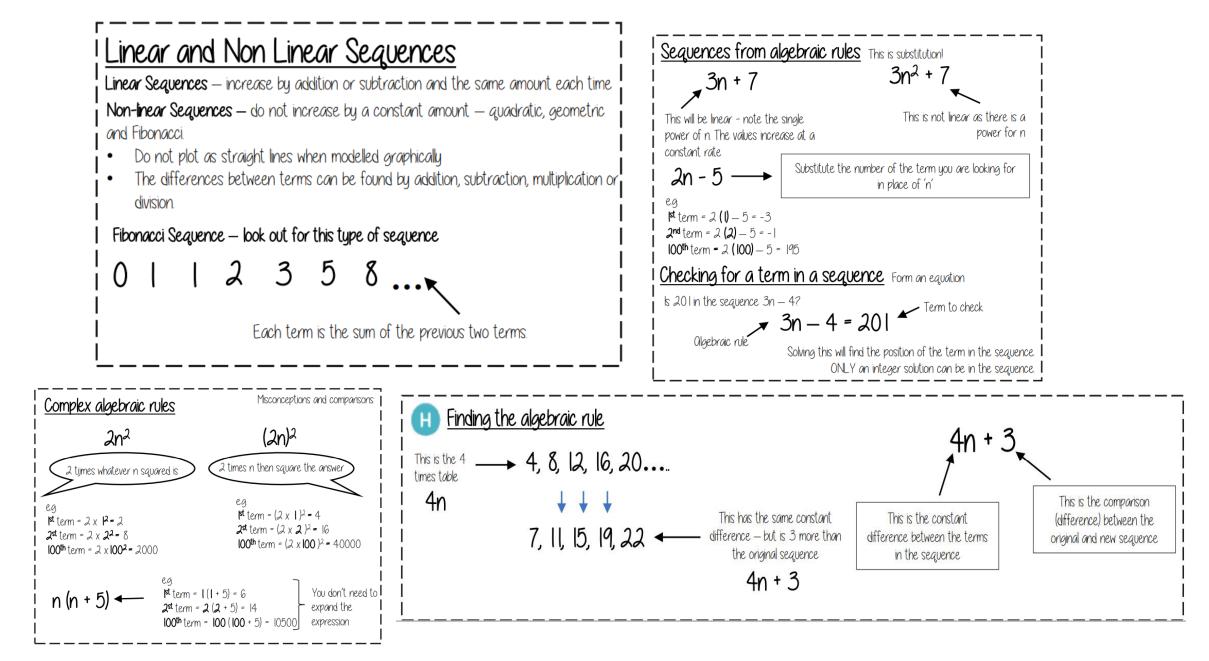


Simultaneous Equations

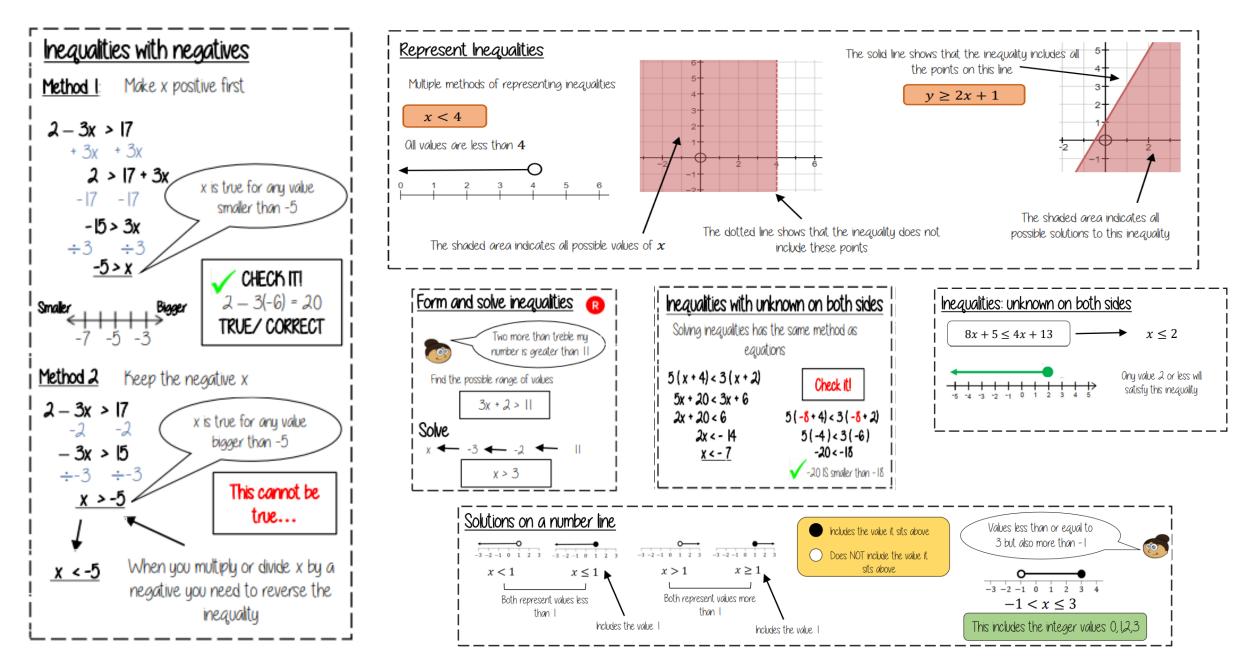
<u> </u>		· · ·
Solving	1. Rearrange one of the equations into the	y - 2x = 3 $3x + 4y = 1$
Simultaneous	form $y = \dots$ or $x = \dots$	3x + 4y = 1
Equations (by	<ol><li>Substitute the right-hand side of the</li></ol>	
Substitution)	rearranged equation into the other equation.	Rearrange: $y - 2x = 3 \rightarrow y = 2x + 3$
	3. Expand and solve this equation.	
	4. Substitute the value into the $y =$ or	Substitute: $3x + 4(2x + 3) = 1$
	$x = \dots$ equation.	
	5. Check that the two values you get	Solve: $3x + 8x + 12 = 1$
	satisfy both of the original equations.	11x = -11
		x = -1
		Substitute: $y = 2 \times -1 + 3$
		y = 1
		Solution: $x = -1$ , $y = 1$





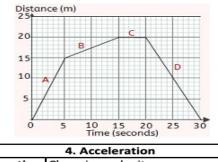


**BROADOAK** ACADEMY Maths





	P1: Motion	Average	The average speed across the
L		speed	whole of a journey, calculate
	esson sequence	speed	from $v = x/t$ .
	s and scalars	Calculating	Distance = average speed x time
		distance	x = v x t
	time graphs	travelled –	~ • ~ •
3. Distance	e-time graphs	word	Distance = m
4. Acceler	ration	equation	Average speed = m/s
5. Velocit	y-time graphs		Time = s
	,	Measuring	Measure the distance between
	. Vectors and scalars	speed	two points and time how long an
3	A scientific word for size.		object takes to pass, then
Scalar	A quantity with magnitude (but		calculate using $v = x/t$ .
quantity	no direction).	Light gates	Equipment that can be used for
Scalar	Distance – 10 m		measuring time accurately with
	Speed – 25 m/s		fast-moving objects to help find
	Mass – e.g. 50 kg		their speed.
	A quantity with magnitude and	Some typical	Walking – 1-2 m/s
quantity	direction.	speeds	Running – 3-8 m/s
Vector	Displacement – 10 m north		Cycling – 5-20 m/s
	Velocity – 25 m/s east		Driving – 10-40 m/s
	Force – 30 N left		Flying – 250 m/s
I I	Acceleration $-3 \text{ m/s}^2$ south	3.	Distance-time graphs
	Momentum – 400 N m/s right	Distance-time	
	Vectors can be represented by	graph	distance from the start
	arrows, with the length of the	8 p	changes over the course of a
	arrow representing the		journey. Time is on the x-axis
	magnitude.		and distance on the y-axis.
	The distance and direction	Distance-time	Horizontal line
	travelled in a straight line. Your speed in a certain direction.	graphs –	
Velocity	Your speed in a certain direction.	stationary	
	2. Speed	Distance-time	Forwards – line sloping up
Units of	Metres per second, m/s.	graphs –	
speed		constant speed	d Backwards – line sloping down
Speed – word	Speed = distance / time	Distance-time	
equation		graphs – line	
-	Speed = m/s	gradient	
	Distance = m	Calculating	Speed = change in distance /
	Time = s	speed from a	change in time
Speed –	v = x/t	distance-time	
symbol		graph	Speed = change in y / change
equation	v = speed		in x
	x = distance		
	t = time		
Instantaneous	Speed at a particular point in		
speed	time.		



÷

and Velocity

Acceleration 10 m/s<sup>2</sup>

travelled

during free

fall

	4. Acceleration
Acceleration	Changing velocity
You	<ul> <li>You change speed</li> </ul>
accelerate	<ul> <li>You change direction</li> </ul>
when	
Units of	Metres per second squared, m/s <sup>2</sup>
acceleration	
Positive and	Positive acceleration = speeding
negative	up
acceleration	Negative acceleration = slowing
	down
Deceleration	Slowing down, negative
	acceleration.
Acceleration	Acceleration = change in speed /
– word	time
equation	
	Acceleration = $m/s^2$
	Change in speed = m/s
	Time = s
Acceleration	a = (v – u)/ t
– symbol	
equation	a = acceleration
	v = final speed
	u = initial speed
	t = time
Linking	Use the equation:
acceleration	$x = (v^2 - u^2) / 2a$

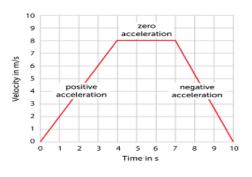
x = Velocity travelled

a = acceleration

u = initial speed

v = final speed

5. Velocity-time graphs					
Velocity-	A graph showing how your velocity				
time graph	(speed) changes over time. Time is				
	on the <u>x-axis</u> velocity is on the y-				
	axis.				
Velocity-	Horizontal line				
time graphs					
<ul> <li>constant</li> </ul>					
speed					
Velocity-	Speeding up – line sloping up				
time graphs					
-	Slowing down – line sloping down				
acceleration					
Velocity-	Horizontal line on the x-axis				
time graphs					
<ul> <li>Stationary</li> </ul>					
Velocity-	Steeper line = greater acceleration				
time graphs					
– line					
gradient					
Calculating	Acceleration = change in velocity/				
acceleration	change in time				
on a					
velocity-	Acceleration = change in y / change				
time graph	in x				
Calculating	Distance = area under the graph.				
distance					
travelled	Divide the graph into rectangles				
from a	and triangles, find the area of each				
velocity-	and add them together.				
time graph					





P2: I	Forces and motion	**Effect of forces on	Forces make you start moving, stop moving or change direction,	**Calculating weight	Weight = mass x gravitational field strength	5. Core pra	actical – investigating acceleration (CP12)
	Lesson sequence	motion	they are not needed to keep you	in e.g.it	W = m x g	*CP12 - Aim	To investigate how changing force
	ant forces		moving!				changes acceleration.
		***Circular	Moving in a circle is a type of		Weight = N	*CP12 -	A trolley on a ramp with 90 g
	n's first law	motion	acceleration because you are		Mass = kg	Setup	masses. 10 g mass hanger attached
8. Mass a	nd weight		changing velocity (your direction		Gravitational field strength =	-	to trolley via a string over a pulley.
9. Newtor	n's second law		changes even if your speed does		N/kg	*CP12 –	Release the trolley, use light gates
10. Core pr	ractical – investigating		not).	**Air	A force greater by the air	Data	to measure the acceleration.
	ation (CP12)	-	A force acting towards the centre	resistance	pushing against you as you	collection	
	n's third law	force	of a circle that enables objects to		move. Faster movement $\rightarrow$	*CP12 –	Move 10 g of mass from the trolley
		****	move in a circle.	*****	greater air resistance.	Variations	to the mass hanger each time.
12. Momer	. ,		Gravity – keeps the Earth orbiting	***Motion	Accelerate until the air	*CP12 -	The force: each 10 g mass = 0.1 N
	ng distances	centripetal	the sun	whilst falling	resistance is equal to the weight;	Independent	force
14. Car safe	ety	force	Tension – lets a bucket swing in circles on a rope		now there is no resultant force	variable	
			Friction – keeps cars turn round a		so speed stays constant.	*CP12 -	Ore mass $\rightarrow$ more force $\rightarrow$ greater
*Scalar	1. Resultant forces		roundabout	4.	Newton's second law	Results	acceleration.
	A quantity with magnitude (but no		Toundabout	*Newton's	Force = mass x acceleration		6. Newton's third law
quantity	direction).	Orbit		second law of		*Newton's F	or every action force there is an
*Vector	A quantity with magnitude and			motion		third law e	qual but opposite reaction force.
quantity *Force	direction. Arrows can be used to represent	Axis		**Acceleration	<ul> <li>The force is greater</li> </ul>	*Action T	he force you push or pull with.
arrows	forces:			is greater	- The mass is smaller	force	
arrows	- Direction = direction of force	Centripetal		when		*Reaction A	force of the same size but opposite
	- Length = size of force	force		*Calculating	Force = mass x acceleration		lirection to an action force.
**Resultant	The force left over when forces			forces	F = m x a		f, A applies an action force to B, B
force	acting in opposite directions are	Velocity					pplies a reaction force of same size
	cancelled out.	velocity			Force = N		nd opposite direction to A.
**Calculating	Subtract the total force in one		3. Mass and weight		Mass = kg		imilarities: same sizes, opposite
resultant	direction from the total force in	*Mass	The quantity of matter in an	*Calculating	Acceleration = m/s <sup>2</sup> Acceleration = mass / force		lirections
force	the other direction.	1111135	object is made of. Units =	acceleration	a = F / m	vs	
*Balanced	When the resultant force is zero		kilograms, kg.	acceleration	a = F / M		Differences: balanced forces act on
forces	(because forces acting in opposite	*Weight	A force caused by gravity pulling		Force = N		ame object, action-reaction act on lifferent objects
	directions are the same size).	in engine	downward on an object. Units =		Mass = kg		g kicking a ball: the foot pushes the
*Unbalanced	When the resultant force is non-		newtons, N.		Acceleration = $m/s^2$		all, the ball pushes back on the foot.
forces	zero (because there is more force	*Force meter	An instrument for measuring	***Inertial	The mass calculated by measuring	forces -	an, the ban pushes back on the root.
	in one direction than another).		forces. They usually involve a	mass	the acceleration produced by	collisions	
	2. Noustan's first law		spring that stretched more the		force, using the equation 'm = $F/$	comsions	
*Newton's	2. Newton's first law An object will move at the same		more the force.		a'		7. Momentum (HT)
first law of	speed and direction unless it	**Gravitationa	I The strength of gravity, which is	***The point	Inertial mass is the same as mass	*Momentum	The tendency of an object to
motion	experiences a resultant force.	field strength	different on different planets.	of inertial	measured with a mass balance,		keep moving.
**The effect	Resultant forces cause		Units = newtons per g=kilogram,	mass	but it gives us a way to measure		
of resultant	acceleration: speeding up,		N/kg.		mass where there is no gravity,		
forces	slowing down or changing	**Gravitationa	1 10 N/kg		such as in space.		
loices	direction	field strength					
L	uncetion	on Earth					



*Colculating		Momentum - mass v velecity	**Three cor	Crumple zonos (stratchu) sast
*Calculating momentum		Momentum = mass x velocity field strength	**Three car safety	Crumple zones, (stretchy) seat belts, air bags
momentum			features	beits, all bags
		p = m x v	***Collision	Greater momentum change →
		Momentum = kg m/s	forces	greater force
		Mass = kg		Force = change in momentum /
		velocity = N/kg	collision	time
Momentum a	nd	Force = change in momentum /	forces	F = (mv - mu)/t
force		time	loices	r = (mv = mu)/t
calculations		F = (mv - mu)/t		Force = N
calculations		r = (mv = mu)/t		Mass = kg
		Force = N		Velocity = m/s
		Mass = kg		Time = s
		Velocity = m/s		
		Time = s		
***(00000000	ion	Total momentum before and		
of momentum		after a collision is the same.		
ormomentum		arter a comsion is the same.		
	8. S	topping distances		
*Stopping	The	e distance travelled from when a		
distance	haz	ard is seen to when you fully		
	sto	р.		
*Thinking	The	e distance travelled from when a		
distance	haz	ard is seen to when you brake.		
*Braking	The	e distance travelled from when		
distance	you	u brake to when you fully stop.		
**Calculating	Sto	pping distance = thinking		
stopping	dist	tance + braking distance		
distance				
**Thinking	Slo	wer reactions = greater thinking		
distance and	dist	tance		
reaction				
time				
**Thinking	-	her speed, tiredness, illness,		
distance	drugs, distractions, old age			
increased				
by				
**Braking	Hig	her speed, poor brakes, poor		
distance		es, wet/icy/gravelly road,		
increased by	· ·	wnhill, heavier load		
	-	Const become	-	
***		). Crash hazards		
**Crash	Cra	shes involve large decelerations,		

9. Crash hazarus					
	Crashes involve large decelerations,				
danger	creating large forces which can				
	injure you.				
**Car safety	Increase the time a collision takes,				
features	reducing deceleration and forces.				



B	2: Cells and control	*Percentile	A measure of the growth of a	*Stem cells	lt i
			child that compares them to	in medicine	rep
	esson sequence		other children of the same age.		like
15. Mitosi	-	*90 <sup>th</sup>	A child is taller than 90% of		or
16. Anima	l growth	percentile *50 <sup>th</sup>	children of the same age.	***	tra
17. Plant g	rowth		Average for height/mass for the	**Problems with stem	Th
18. Stem o		percentile	age.	cells	us
19. Nervoi		*Percentile	Graphs showing how	cens	co
		graphs	height/mass change with age with different lines for each		
	transmission		percentile.		5.
21. Contro	olling movement	*Cell	When a cell divides by mitosis to	*Nervous	All
			produce two different types of	system	wo
*Cell cycle	1. Mitosis The life of a cell comprising	uncrenducion	cell (not two identical ones).		inf
	interphase and mitosis.	*Specialised	A cell special features designed		col
*Interphase	Preparation for mitosis in which	cell	for a specific job.	*Central	Th
interphase	extra cell parts are made and	**Importance	To produce all the different	nervous	de
	DNA chromosomes are replicated	of	types of <u>cell</u> the body needs	system	
	(copied).	differentiation	such as red blood cells, fat cells,	**Peripheral	
*Mitosis	When one cell divides into two	in animals	nerve cells and muscle cells.	nervous	inf
inite sis	genetically identical daughter		2. Diant mouth	system	car
	cells.	*Diant growth	3. Plant growth Cell division creates more cells,	*Neurone	you A r
*(I)PMATC	The stages of mitosis: interphase	*Plant growth	elongation makes these cells get	*Impulse	Ele
.,	(not mitosis), prophase,		bigger.	impulse	ne
	metaphase, anaphase, telophase,	**Meristems	Areas just behind the tips of	**Cell body	The
	cytokinesis.	wiensteins	roots and shoots where cell	cen bouy	cor
**Prophase	The membrane of the nucleus		division and differentiation	**Dendron	The
	breaks down and spindle fibres		happens.	and axon	car
	start to form.	**Importance	To produce all the different	und uxon	bo
**Metaphase	Spindle fibres fully form and	of	types of <u>cell</u> a plant needs such		(ax
	chromosomes line up across the	differentiation	as root hair cells and xylem cells.	**Myelin	À f
	middle of the cell.	in plants		sheath	de
**Anaphase	Chromosome copies separate	**Calculating	% change = (final value – starting		pre
··- · ·	and move to each end of the cell.	percentage	value) / starting value x 100		an
**Telophase	A new membrane forms around	changes			6. N
	each set of chromosomes to form		4. Stem cells	**	<b>0</b> . r
**Cutakinasia	two nuclei. The two new cells fully separate.	*Stem cell	A cell that can differentiate when	Neurotransm	aicci
*Cancer	When mitosis happens out of		it divides, to produce two	Neurotransm	11331
Cancer	control forming large lumps of		different cells.	**Dendrites	
	cells called tumours.		A stem cell that can become any	Denuntes	
	cens caned turnours.		kind of cell. Found in developing		
	2. Animal growth		embryos.		
*Growth	Increase in size due to increased		A stem cell that can only become	**Axon term	inal
	numbers of cells.		a few types of <u>cell</u> . Found in		
				1	

animals after birth.

tem cells	lt is h	oped they can be used to	**Synapse		Small gap between two	
medicine	repla	ce damaged cells in diseases			neurons where the axon	
	like ty	pe 1 diabetes or leukaemia,			terminals of one meet the	
	or to	grow new organs for			dendrites of another.	
	trans	plant.	**		Chemicals released by axon	
Problems	They	may potentially cause	Neurotransn	nitter	terminals that diffuse across	
ith stem	cance	er, stem cells can only be			the synapse to trigger a new	
lls	used	in the person they have			impulse the dendrite of	
	come	from.			another neuron.	
		-	**Sensory ne	euron	Nerve cell that carries	
		ervous system			impulses from sense organs	
lervous		e nerves in your body			to the CNS. Has a long	
stem		ng together to gather			dendron and a long axon.	
		nation, make decisions and	**Relay neu	ron	Nerve cell in the CNS that	
		ol responses.			makes decisions. Dendrites	
Central		rain and spinal cord – <u>makes</u>			join onto cell body, short	
ervous	decisi	ons (aka CNS).			axon.	
stem			**Motor neu	iron	Nerve cell that carries	
Peripheral	-	ur other nerves – gathers			impulses from the CNS to	
ervous		nation from your sense and			muscles. Dendrites join onto	
stem		s messages from the CNS to			cell body, long axon.	
	/	nuscles.		<u> </u>		
leurone		ve cell			olling movement	
mpulse		ical message carried by a	*Stimulus		e of information detected by	
C-11	neuro		*0		ervous system.	
Cell body	The central part of a nerve cell		*Receptor *Response		hat detect a stimulus. ction that the nervous system	
		ining its nucleus.	Response			
Dendron		ong parts of a nerve cell	*Effector		s happen.	
nd axon	,	ng impulses towards the cell	Enector	The body part that produces the		
		(dendron) and away from it	**Voluntary	response, often a muscle. A stimulus is detected by a		
Myelin	(axon		movement		,	
eath		y layer around the axon and on that insulates it to	movement	-	tor, causing an impulse to be	
eath					d by a sensory neuron to the	
	-	nt the impulse from escaping			Relay neurones in the brain	
	and s	peeds the impulse up.			e what to do and send er impulse down a motor	
	6. Neu	irotransmission			n to the effector (muscle) to	
1		The travelling of an impulse			a response.	
eurotransm	ission	along a neuron and into	*Reflexes		natic responses that happen	
		another.	nenexes	very quickly without conscious		
Dendrites		Branches at the beginning			ht to keep the body safe.	
		of a dendron that connect	**Reflex arc		ment is caused in the same	
		to receptor cells or another	Reliex arc			
		neuron.			y as for voluntary movement, cept the spinal cord makes the	
Axon termi	inals	Branches at the end of an			on without needing the brain	
		axon that connect to a		to thir	•	
		muscle or another neuron.		to thir	IN.	



	B	3: Genetics	*DNA bases	Adenine, A; thymine, T;
			cytosine, C; guanine, G	
Lesson sequence		*Complementary	A pairs with T	
1. M	eiosi	S	base pairs	C pairs with G
2. DI	A		**Hydrogen	Weak force holding the tw
3. DI	NA ex	traction	bonds	strands of DNA together.
4. AI	leles		**DNA analysis	Uses small differences in D
5. In	horit	ance		to determine family
				relationships or link people
		mutation		to crimes.
7. Va	ariati	ion	3. [	ONA extraction
		1. Meiosis	*DNA extraction:	Salt makes DNA clump
*Gametes	Egg	cell and sperm cell	Mix water, salt an	d together, detergent brea
	00	m cell fuses with egg cell and	detergent.	down cell membranes to
i ci cii sucioni		ei combine		release DNA
*Zygote		e cell formed by fertilisation	*DNA extraction:	Increases the surface ar
*Gene		th of DNA coding for a	Mash fruit/veg an	d
	-	ein. Controls your	add the solution	
	L	acteristics	*DNA extraction:	Heat makes it react quic
*Genome	All th	ne DNA and genes in an	Leave in water bat	h
		nism	at 60°C	
*Protein		mer made from amino acids	*DNA extraction:	To remove unwanted
**Polymer	<u> </u>	molecule made by chaining	Filter the mixture	lumps
	toge	ther many shorter ones	and collect filtrate	
*Diploid	A ce	ll with 23 pairs of	*DNA extraction:	It's easier to work with a
	chro	mosomes (46 in total)	Measure out 10	small amount
*Haploid	A ce	ll with 23 single chromosomes	cm <sup>3</sup> of filtrate	
*Meiosis	Cell	division that makes gametes	*DNA extraction:	Protease breaks down
**Meiosis	DNA	replicates, cell divides into 2	Add two drops of protease solution	proteins around the DN
stages	diplo	oid cells, these divide into 4		
-	hapl	oid daughters.	*DNA extraction:	DNA is insoluble in etha
**Why	Chro	mosomes in a pair are slightly	Gently add ice-col	d so precipitates
gametes are different. Different gametes get		ethanol *DNA extraction:	Courting DNA losses form	
different different combinations of		Leave for several	So white DNA layer form	
chromosomes.		minutes		
		2 014		
		2. DNA		4. Alleles
*Chromosom	e	Large DNA molecule made	*Allele D	ifferent version of the same

into a small package by

protein.

\*DNA structure

tightly coiling DNA around a

Two strands, double helix,

complementary base pairs,

sugar-phosphate backbone

DIACENTIACTION	•	Sait makes DivA clump
Mix water, salt a	nd	together, detergent breaks
detergent.		down cell membranes to
		release DNA
*DNA extraction	:	Increases the surface area
Mash fruit/veg a	nd	
add the solution		
*DNA extraction	:	Heat makes it react quicke
Leave in water b	ath	
at 60°C		
*DNA extraction	:	To remove unwanted
Filter the mixtur	е	lumps
and collect filtra	te	
*DNA extraction	:	It's easier to work with a
Measure out 10		small amount
cm <sup>3</sup> of filtrate		
*DNA extraction	:	Protease breaks down
Add two drops o	f	proteins around the DNA
protease solutio	n	
*DNA extraction	:	DNA is insoluble in ethanol
Gently add ice-co	old	so precipitates
ethanol		
*DNA extraction	:	So white DNA layer forms
Leave for severa	I	-
minutes		
	_	
		I. Alleles
*Allele		ferent version of the same
	-	e. We have two alleles of
		h gene.
**Homozygous		have two copies of the
sam		ne allele
**Heterozygous We		have two different copies
	of a	an allele

Weak force holding the two

Uses small differences in DNA

to determine family relationships or link people

*Dominant	One copy needed for		
allele	characteristic to show. Written		
	as a capital.		
*Recessive	Two copies for the		
allele	characteristic to show. Written		
	as lowercase.		
*Genotype	The combination of alleles in		
	an organism.		
*Phenotype	The characteristics produced		
	by the alleles.		
**Genetic	Shows the likelihood of		
diagram	offspring produced by parents		
	with certain genotypes		
	5. Inheritance		
*Sex	Female: XX		
chromosomes	· emaier / ut		
*Inheriting	All eggs are X, 50% of sperm are		
sex	X and 50% are Y, so 50% of		
	zygotes are XX and 50% are XY		
*Punnett	Uses the genotypes of male and		
squares	female gametes to predict the		
	genotypes of the offspring.		
**Probability	Punnett squares tell you the		
and Punnett	likelihood of certain offspring,		
squares	not what will <u>actually happen</u> .		
**Cystic	Illness caused by a inheriting two		
fibrosis	copies of a faulty recessive allele.		
**Family	Chart showing how genotypes		
pedigree	are inherited down through a		
chart	family.		
	6. Gene mutation		
	c. cene mutution		

\*Mutation A change to the bases in a gene.

rarely beneficial

Change the structure of a protein

Mistakes copying DNA during cell

and how it works. Sometimes harmless, normally harmful, very

division, DNA damage from

(HGP) Project involving many

scientists from many countries to

find the order of bases in human

chemicals or radiation

\*Inheriting Only if they occur in gametes (egg

\*\*Effect of

mutations

\*Cause of

mutations

\*Human

Genome

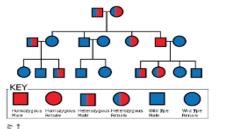
Project

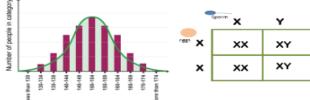
mutations and sperm)

DNA

**How is	To tailor drugs to genes, to design
the HGP	better drugs
useful?	
**Genetic	HGP found 99% of DNA in all people
differences	is identical.

	7. Variation	
*Variation	Natural differences between	
	members of a species that	
	affect the chance of survival.	
*Genetic	Variation caused by genes	
variation		
*Environmental	Caused by interaction with the	
variation	surroundings – such as food,	
	climate etc.	
*Causes of most	A combination of genes and	
variation	the environment.	
**Acquired	Changes caused by the	
characteristics	environment during your	
	lifetime, such as losing a leg	
**Continuous	Can be anywhere within a	
variation	range, such as height	
	following a normal	
	distribution.	
**Discontinuous	Can be only one of a few	
variation	possibilities, such as blood	
	type: A, B, AB, O	
**Normal	Bell-shaped curve with more	
distribution	in the middle and fewer either	
	side.	





## ACADEMY History



## Establishment of the dictatorship

### 27th February - Reichstag Fire

Communists were arrested by the police. Hitler was granted emergency powers and police could arrest people without trial. Political meetings were banned and newspapers closed down.

#### **5th March - New Elections**

The Nazis used the police and SA to pressure on political opponents. The Nazis achieved their best election result with 44% of the vote.

#### 24th March - The Enabling Law

Hitler could now pass laws without the Reichstag or President. He needed 2/3 of the Reichstag to support it.

#### 2nd May - Trade Unions taken over

Trade union offices taken over and leaders arrested. All trade unions merged into one organisation (German Labour Front) controlled by the Nazis.

### July - All political parties banned

This law banned people from forming new political parties. There was now only one party in Germany.

## 29- 30th June - Night of the Long Knives

Hitler was concerned that the SA had too much power. He needed to reassure the army. SA leaders were dragged from their beds, taken to Nazi headquarters and shot dead.

### 2nd August - Death of Hindenburg

When Hindenburg died. Hitler made himself President and Chancellor. Hitler was now in total control of government.

### August - Army Oath

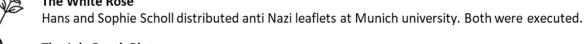
The army took an oath of loyalty to Hitler. They swore to obey him and risk their life for him at any time.

## Year 9 What was it like to live in Nazi Germany?

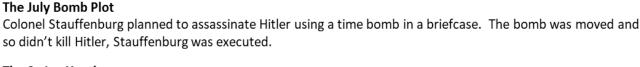
#### **Key Terms**

Indoctrination	The process by which a person or group are taught to accept and believe ideas without question.
Propaganda	Information that can be misleading designed to show one point of view.
Censorship	Control or suppression of information which is considered unacceptable.
Dictatorship	A form of government in which one person or group have absolute power without effective limitations.
Ideology	A system of ideas and beliefs, often linked to politics and economics
Police state	A state controlled by a police force who secretly supervises peoples activities.
Totalitarian	A state centrally controlled by a dictator who requires total obedience from people.
SS	The secret police lead by Heinrich Himmler.
SA	Contained many ex army members lead by Ernst Röhm
Aryan	A racial group viewed by the Nazis as the ideal race or master race.

#### Opposition The White Rose





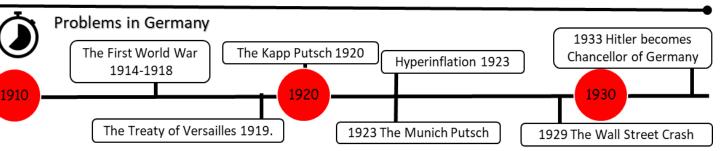


#### The Swing Youth

Made up from young people who wanted to dance and listen to jazz music which had been banned by the Nazis.

### **Edelweiss Pirates**

They went on their own camping trips, drank, partied and made fun of Hitler and the Hitler Youth.





1934









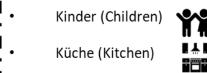
Gestapo

The Gestapo was Hitler's nonuniformed secret police force. The Gestapo spied on people, tapped their phones and used informants to identify suspects. They also had permission to torture suspects.

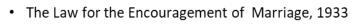
The main weapon of the Gestapo was fear. They were impossible to tell apart from ordinary Germans.

#### Women

Nazi policy towards women told them to focus on the 3Ks



Kirche (Church)



- In 1938, the Nazis changed the divorce laws to encourage childbirth
- Lebensborn encouraged single women to breed with SS men.
- The Mother's cross

Concentration

Camps

Many died.

and criminals.

Prisoners were underfed, housed in

Prisoners included political enemies

like communists, those who criticised

Hitler like church ministers and other

people who were seen as a threat to

Nazi society like homosexuals, Jews

wooden huts and treated harshly.

Reduced employment opportunities

The aim of 'Strength through Joy' (KdF) was to improve the standard of living for workers.



Workers

The KdF promoted and funded a range of activities and trips such as sports events, theatre shows, holidays and cruises.

The 'Beauty of Labour' (SdA) was a department of 'Strength through Joy' and focused on improving conditions in the workplace. e.g. better lighting and facilities.



Lawyers had to swear an oath of loyalty to Hitler and judges had to join the Nazi organisation for judges. Hitler abolished trial by jury so judges decided if the suspect was guilty. Hitler could also intervene in serious cases if he was not happy with the verdict.



О Д

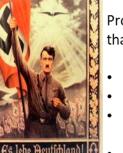
G

 $\mathbf{X}$ 

**Key People** 

	•	
	Heinrich Himmler	Leader of the SS
	Josef Goebbels	Propaganda Minister
(er)	Adolf Hitler	Leader of Germany between 1933 and 1945

#### Propaganda



Propaganda was used by the Nazis to communicate a clear message that the masses could easily understand.

- Posters like this one promoted the 'Hitler myth.'
- Rallies were used to show the power of the Nazis.
- Key messages e.g. physical strength were showcased at the 1936 Berlin Olympics.
- Books warned children about the dangers of other non Aryan groups.

## Youth

Hitler Youth (compulsory from 1936) - Boys 14-18.

German League of Maidens (BDM) - Girls 14-21 years

\$

Both groups went on hiking expeditions and promoted physical fitness. Both taught loyalty to the Führer.

They were also indoctrinated with ideas on the Aryan race.

Girls were taught skills to prepare them for their future role e.g. how to iron and cook.

Boys were taught map reading and skills needed for a military role.

At school the subjects were changed to indoctrinate children. History focused on the glories of the past and race studied taught the superiority of the Aryan race.





Year 9

What was it like to live

#### **The Holocaust - Key Events**

BROADOAK History – Year <u>9</u>

Key Terms

<b>1933</b> 30 January	Hitler a ppointed Chancellor of Germany.	How and why was the Holocaust possible?		Antisemitism	Prejudice, discrimination and/or persecution against Jewish people.
<b>1933</b> 1 April	Official national boycott of Jewish shops and businesses. Lasted one day but was poorly supported.			Collaborator	Someone who cooperates or works together on a project to help those in charge achieve a certain aim.
<b>1935</b> September	<b>Nuremburg Laws</b> - Jews lost their citizenship and were no longer allowed to marry Germans.	Interpretation	Analyse and evaluate different historian's views about the same topic.	Discrimination	Different treatment of people because of their ethnicity, gender, political or religious beliefs, sexuality.
<b>1936</b> August	<b>Berlin Olympics</b> led to temporary suspension of the persecution of Jewish people in Germany.	Source Analysis	Nature: What is the type of source?	SS Einsatzgruppen	'operational groups' of German SS mobile units which
<b>1938</b> 9-10 Nov	Kristallnacht - the 'night of broken glass', thousands of Je wish bus iness and shops were attacked and synagogues burnt by Nazi	Use NOP Origin: Who wrote it? Use NOP When? Where? Content Purpose: Why was the source made? Content: What does it tell			swept through Russia behind the German army rounding up and murdering Jewish people.
1939	Stormtroopers. Jewish ghettos built in a round 200 cities in Poland following			Final Solution	Nazi government term to describe the decision made to murder Jewish people using the gas chambers.
September 1941 June	German invasion of the East. <b>Einsatzgruppen killing squads</b> – following the German invasion of the Soviet Union thousands of Jewish people were rounded			Genocide	Deliberate and planned attempt to exterminate people from a certain ethnic group in order to destroy that group.
1942	up and murdered. Wannsee Conference – leading Nazi officials meet to discuss the			Ghetto	Segregated area of a city where Jews were forced to live in overcrowded and unhygienic conditions.
January	'Final Solution' and formal agreement given to speed up the use of death camps.			Holocaust	Systematic mass murder of Jewish people by the Nazi
<b>1945</b> May	End of WWII in Europe and end of the Holocaust.			Persecution	government and collaborators during WWII. Unfair and cruel treatment of individuals or groups based on ethnicity, gender, political or religious beliefs, sexuality.

Two key interpretations about the role of Germans in the Holocaust

#### Why was the Holocaust possible?

There was a long history of <b>antisemitism</b> that the Nazis were able to build upon	Mass murder of Jews was state driven - The Nazi government passed laws, used money and resources in order to achieve their priority
The Nazi government used <b>propaganda</b> to indoctrinate citizens to justify mass murder	<b>Complicity of others</b> – ordinary people carried out orders or were willing to take part
The <b>Second World War</b> provided the context and the opportunity for mass murder	The Holocaust <b>evolved</b> <b>over time</b> – and allowed for more radical action to occur



Goldhagen argues that most German soldiers involved in the Holocaust were 'willing executioners'.



Goldhagen argues that the vast majority of people in Germany had come to believe it was necessary to eliminate Jewish people long before Hitler came to power. Goldhagen studied a group of men in the SS Einsatzgruppen and found they participated enthusiastically in the killings. According to Goldhagen, because these men were ordinary Germans, this shows that the majority of Germans would have agreed with the murder of the Jewish people.

**Browning** studied the same group of men in the SS Einsatzgruppen and did not dispute they were involved in the killings. However, he points out that although some of the men may have been motivated by extreme racist beliefs, many had other reasons for acting the way they did. **The fact that they took part in the killings, however wrong, does not necessarily mean that they took part willingly.** This means it is not correct

for Goldhagen to draw conclusions about the German people as a whole from how these men acted.



## Geography

What can we do about Climate Change?

Keyword	Definition
Adaptation	The process of change in order to deal with a situation. In this instance, changing behaviours to deal with changes in our climate. Learning to live in a warmer world
Climate Change	A long-term change in the Earth's climate, especially a change due to an increase in the average atmospheric temperatures
Climate Crisis	A situation characterised by the threat of highly dangerous, irreversible changes to the global climate
Development	The progress of a country and the linked improvement to quality of life
Economy	The wealth of a country
Enhanced Greenhouse Effect	Increased global warming due to human activity
Extreme Weather	A weather event is significantly different from the average or usual weather pattern. This may take place over one day or over a period of time e.g. a flash flood or heat wave.
Fossil Fuels	Non-renewable energy sources - coal, oil and gas
Greenhouse Effect	Warming of the lower atmosphere by heat released from earth
Greenhouse Gases	Gases such as Carbon Dioxide and Methane, which absorb heat from earth
Mitigation	The action of reducing something. In this instance, actions to reduce greenhouse emissions
Policy	A policy is a set of principles to guide actions in order to achieve a goal
Sustainability	When materials and resources are used in a way that will balance the needs of the present without compromising the future, the ability to maintain something such as economic growth
Glacial Period	A period of global lower temperatures
Inter-glacial Period	A period of increasing global temperatures

Activism is the policy or action of using vigorous campaigning to bring about political or social change.



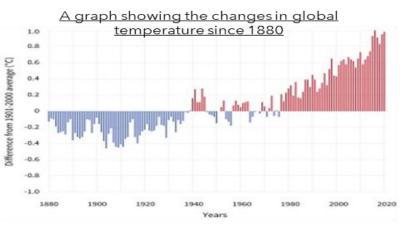
**Campaigning** is working in an organised and active way towards a particular goal.

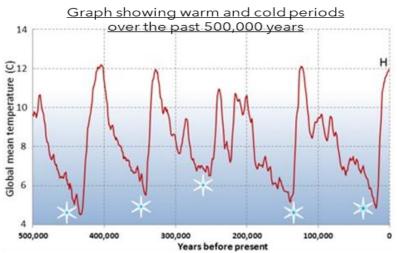
#### Protesting -

A protest is a public expression of objection, disapproval or dissent towards an idea or



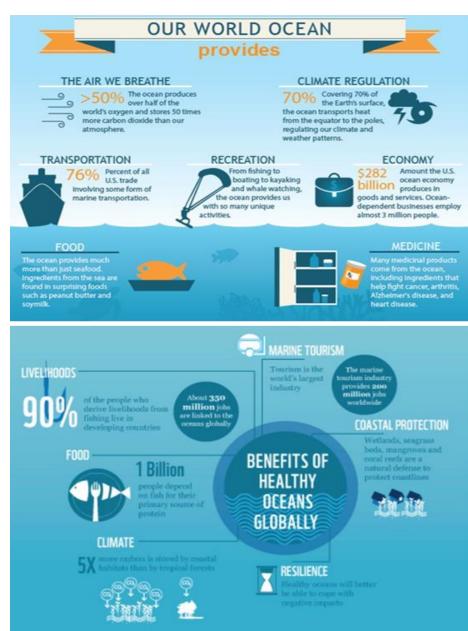
action, typically a political one.

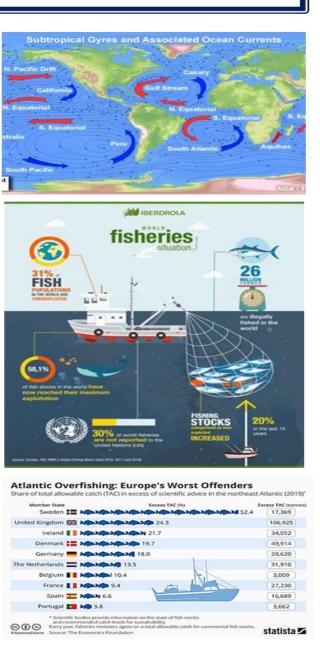






Why should we care about the ocean?





Keyword	Definition
Biodiversity	The variety of plant and animal life in a particular habitat
Great Pacific Garbage Patch	Largest of five offshore plastic accumulation zones containing plastic pollution. It is located between California and Hawaii.
Microplastics	When larger bits of plastic break down into tiny particles
Gyre	A large circular ocean current
Deep ocean currents	Currents driven by density
Surface ocean currents	Currents driven by surface winds
Overfishing	Catching more fish than the natural system can replace leading to a reduction in fish number
TAC - Total Allowable Catch	The number of fish you are allowed to catch in a particular area
Food Security	Having enough food to supply demand
Sustainable Fishing	Respecting habitats and leaving enough fish in the ocean so that fish numbers can be regulated

## Religion and World Views

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ACADEMY

YR9 – Does religion	cause conflict?
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#### 1984 Massacre in India

Definition Keyword Cruel or unfair treatment, especially Persecution because of race or religious or political beliefs. A tear or split. In religion it is when Schism the religion splits into opposing groups. A branch or group within a religion. Denomination For example, Sunni and Shia in Islam, or Catholic and Protestant in or Sect Christianity. The fear of, hatred of, or prejudice Islamophobia against the religion of Islam or Muslims in general. The internal struggle to be a good **Greater Jihad** Muslim Lesser Jihad To defend Islam from threat. The dislike of or prejudice against Homophobia gay people

## acre in India Mahatma Gandhi

the leader of the nationalist movement against the British rule of India. As such, he came to be considered the father of his country.

In October 1984, a Sikh man called Beant Singh shot and killed the Indian Prime Minister, Indira Gandhi.

On November 1<sup>st</sup> 1984, when news broke that the person who had killed the prime minister was a Sikh, angry mobs across India started to attack Sikhs across India.

Sikhs were identified by their turbans, and dragged off trains, some mobs would shave Sikhs heads and beards, knowing these are holy symbols to them. Mobs went to Sikh villages and set them on fire killing many people.

In the capital city Delhi, Sikhs were burned to death, beaten, raped and shot. Many of these Sikhs had nothing to do with Bhindranwale and did not support his violent campaigns, they were targeted purely for being Sikh. Victims included women and children. 3000 Sikhs were killed in just Delhi and 50,000 had to flee the city and move to refugee camps.

Between 8000 and 17000 were murdered in the anti-Sikh riots across 40 cities in India.



#### Christian Missionaries in Japan

A missionary is someone who travels out into the world & preaches their religion. They hope to convert people to their religion & to bring their religion into a new area.

#### A timeline of Christians in Japan



The first wave of Christian missionaries came with Portuguese traders in 1543, opening the way for Jesuit (Catholic) priests to follow. Their work saw dramatic early growth. By 1582 there are said to have been nearly 250 churches and 150,000 members.



The sudden growth of the church threatened the Shogun's authority. The Shogun was the military leader of Japan. Christianity was banned. This became a time of horrific persecution described in Shusako Endo's book "Silence". Many Christians were martyred. The remaining church who were not killed for their faith went underground.



The second wave began when Japan's isolation was broken by American desire to open up trade with Japan. Japan's ports opened to trade and protestant missionaries soon followed. Christianity officially remained a banned faith until 1871.



The third wave came after World War II with the American occupation of Japan. They called for ten thousand missionaries and a million Bibles to heal Japan's hurts. Missionaries flooded in. The church grew dramatically for nearly two decades.

## Religion and World Views

#### What is Jihad & how might it lead to Islamophobia?

The literal meaning of Jihad is struggle or effort. Muslims use the word Jihad to **describe three different kinds of struggle:** 

- A believer's internal struggle to live out the Muslim faith as well as possible
- The struggle to build a good Muslim society
- Holy war: the struggle to defend Islam, with force if necessary

#### When can Muslims wage a Holy War (military jihad)?

There are several reasons, but the Qur'an (Muslim holy book) is clear that self-defense is always the underlying cause. Other reasons are:

Strengthening Islam

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- Protecting the freedom of Muslims to practice their faith
- Protecting Muslims against oppression, which could include overthrowing a tyrannical ruler

#### What a Jihad is not:

A war is not a Lesser Jihad if the intention is to:

- Force people to convert to Islam
- Conquer other nations to colonise them
- Take territory for economic gain
- Demonstrate a leader's power

#### How has this view of jihad led to Islamophobia?

In the late 20th and early 21st century, the Western media has focused on military (lesser) jihad as being the way that 'Muslims' operate. The media shows news clips and images of Muslims as terrorists, as suicide-bombers, paramilitaries and as extremists.

There **are** people who kill and terrorise in the name of Islam. There are people who kill in the name of many religions. It does not mean that all people who follow that religion are like that. Many of the groups that kill in the name of Islam are not even following the rules of lesser jihad that are laid down in Islam.

#### YR9 – Does religion cause conflict?

#### The Holocaust

During the second world war, the Nazi party, under the leadership of Adolf Hitler, tried to kill all Jewish people in Europe. The Nazis and their collaborators murdered six million Jewish people, including 1.5 million children. This terrible period in history is known as **the Holocaust.** 

During the late 1920s and early 1930s, Germany was experiencing great economic and social hardship. The Germans had been defeated in the First World War and has been forced to pay huge reparations to the Allies. As a result, Germany suffered inflation and mass unemployment. Hitler blamed the Jews for this hardship and his anti-sematic views eventually became policy. This then led to a plan to exterminate all Jewish people.



Jews throughout Nazioccupied Europe were forced to wear a badge in the form of a Yellow Star as a means of

identification. This was not a new idea; since medieval times many other societies had forced their Jewish citizens to wear badges to identify themselves. The star was intended to **humiliate** Jews and to mark them out for **segregation and discrimination**. The policy also made it easier to identify Jews for deportation to camps.

#### Being LGBTQ+ in Russia

In 2013, the Russian government passed a bill which imposes fines for anyone who normalises or discusses 'non-traditional' sexual relationships. The intent of this bill is to discourage open discussion of homosexuality or any LGBTQ identities in public places or in the media.

"This is a step backward from the progress of civilisation in my country," Vitus Media, a spokesman for the Russian LGBT Network, said in a telephone interview. "Obviously this law will elicit aggression and violence, and responsibility rests with the lawmakers who voted in its favor."

To date, there have been a number of legal actions taken under the regional anti-LGBT propaganda laws. In St. Petersburg in particular, activists and performers, including international superstars like Madonna and Lady Gaga, have faced fines and legal proceedings for expressing support for the local LGBT community. One individual was arrested and fined in St. Petersburg for holding a sign supporting LGBT rights that sated simply "Gay is Normal." Six LGBT activists were also detained in front of the State Children's Library in Moscow in July with another "Gay is Normal" banner.



Greater jihad

Lesser iihad

of Islam'.

works.

Fight against evil within oneself

painst oppression Things that might be a

To brand all Muslims in

this way is a form of

persecution. It is the

unfair treatment of a

group of people who

follow Islam. It is called

Islamophobia. That word

literally means 'the fear

The media image that is

shown of Islam and

is how persecution

frightening. It creates

fear and suspicion. That

Muslims can be

JIHAD

1. The Present Tensenormalmentenormallygeneralmenteusuallya vecessometimesStep 1: Take the infinitive of the verb (AR/ER/IR)Step 2: Chop off the ending (AR/ER/IR)Step 3: Add the correct ending:			2. <u>Th</u> la semana próxima el fin de semana pro mañana el año próximo	mana próximo next weekend tomorrow kimo next year ke the present tense of the verb 'ir' (to go)			3. The Preterite (Past) Tense         la semana pasada       last week         el fin de semana pasado last weekend         ayer       yesterday         el año pasado       last year         Regular Verbs:       Step 1: Take the infinitive of the verb (AR/ER/IR)		
PronounsAR verbsER verbsIR verbsYo000TúasesesEl/EllaaeeNosotrosamosemosimosVosotrosáiséisísEllos/Ellasanenen			ir: to go(yo) VoyI go/am going(tú) VasYou go/are going (s.)(el/ella) VaHe/she/one goes/is going(nosotros) VamosWe go/are going(vosotros) VaisYou go/are going (p.)(ellos/ellas) VanThey go/are goingStep 2: Add the presposition 'a'Step 3: Add an infinitive (the thing you're going to do).			Step 2: Chop off the en Step 3: Add the correct Pronouns Yo (I) Tú (You s.) El/Ella (He/She) Nosotros (We) Vosotros (You pl.) Ellos/Ellas (They)	••••	<b>ER/IR verbs</b> <b>í</b> iste i <b>ó</b> imos isteis ieron	
Super Five Irregular Verbs: There are some verbs that don't follow this pattern. The 4 most important irregular verbs are on this sheet (TENER, IR, SER, and HACER).			Voy a jugar				6. <u>Awesome Spa</u> o puedo esperar! r lo que sé	anish Things to I can't wait f As far as I kn	for it!
Ser – to be(yo) SoyI am(tu) EresYou are (s.)(él/ella) EsHe/she/ is(nosotros) SomosWe are(vosotros) SoisYou are (p.)(ellos/ellas) SonThey are		<ul> <li>(él/ella) Hace He/she/ does/make</li> <li>(nosotros) Hacemos We do/make</li> <li>(vosotros) Hacéis You do/make (j</li> </ul>		I do/make(yo) TengoI haveYou do/make (s.)(tu) TienesYou have (s.)Yohe does/makes(él/ella) TieneHe/she/one hasS We do/make(nosotros) TenemosWe haveYou do/make (p.)(vosotros) TenéisYou have (p.)		el Es No Mi Mi	entras estaba haciendo /	e I am listening hago los debe	st of) thing ind of) thing tching TV <b>música</b> g/I listen to music

NFO 2021

while I am	doing /	'I do	homework	



9.10 Leisure and Healthy Living	
Spanish Key Vocabulary	

	Spanish Ke	y vocab	alary	
(1)	Places		(5	5) Adjectives
en casa	at home		amable	kind
en la casa de mi amigo	at my friend's house	2	agradable	pleasant
en la casa de mi padre	at my dad's house		contento/a	happy
en la casa de mi madre	at my mum's house		hablador/a	chatty
en la casa de mis abuelos	at my grand-parents	s'	bonito/a	beautiful
en mi dormitorio	in my room		divertido/a	fun
en el salón	in the living room		mono/a	cute
en el jardín	in the garden		guapo/a	pretty
en mi barrio	in my neighbourhoo	d	limpio/a	clean
en Inglaterra	in England		rápido/a	fast
en el extranjero	abroad		rico/a	rich
en el pueblo	in town		tímido/a	shy
en el campo	in the countryside		trabajador/a	hard working
en las montañas	in the mountains		triste	sad
en la costa	by the seaside		aburrido/a	boring
		_	molesto/a	annoying
				serious
			fácil	easy
		n	difícil	difficult
	my friends		estricto/a	strict
mi mejor amigo/a	my best friend		feo/a	ugly
mi hermano	my brother		ruidoso/a	noisy
mi hermana	my sister		maleducado/	a rude
			horrible	horrible/awful
		pmum	perezoso/a	lazy
			glotón	greedy
5010/0	alone		deportivo/a	sporty
(3) Superlatives			enriquecedor	/a enriching
el/la más the most		st	interesante	interesting
el/la major the best	el/la peor the wo	orst	viejo/a	old
			relajante	relaxing
(4) New time	phrases		1011	- to
		mus		ntensifiers nasiado too
				imente really
	en casa en la casa de mi amigo en la casa de mi padre en la casa de mi madre en la casa de mi sabuelos en mi dormitorio en el salón en el jardín en mi barrio en Inglaterra en el extranjero en la montañas en la costa (2) <u>P</u> con mi colegio mi equipo (de rugby) mis amigos mi mejor amigo/a mi hermana mis padres mi padrastro/madrastra mi familia sola/a (3) <u>Su</u> el/la más the most el/la major the best	(1) Places         at home         en casa       at my friend's house         en la casa de mi padre       at my dad's house         en la casa de mi padre       at my dad's house         en la casa de mis abuelos       at my grand-parents         en mi dormitorio       in my room         en el salón       in the living room         en el salón       in the garden         en mi barrio       in my neighbourhood         en el salón       in the garden         en el pardín       in the garden         en la casa de mis abuelos       in my neighbourhood         en la casa de mis abuelos       in my neighbourhood         en el pueblo       in town         en el campo       in the countryside         en la costa       by the seaside         Con       with         mi colegio       my school         mi padrastro/madrastra       my parents         mi padras	(1) Places         en casa       at home         en la casa de mi amigo       at my friend's house         en la casa de mi padre       at my dad's house         en la casa de mi padre       at my mum's house         en la casa de mis abuelos       at my grand-parents'         en mi dormitorio       in my room         en el salón       in the living room         en el salón       in the garden         en mi barrio       in my neighbourhood         en lagterra       in England         en el extranjero       abroad         en el campo       in the countryside         en las montañas       in the mountains         en la costa       by the seaside         Veople         con         mi colegio       my school         mi equipo (de rugby)       my friends         mi padres       my parents         mi bermano       my best friend         mi hermana       my sister         mi adrastro/madrastra       my stepdad/stepmum         mi familia       my family         sola/a       alone         (1) Superlatives         el/la major       el/la menos       the least	en casa at home anable agradable contento/a hablador/a bonito/a en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en la casa de mi madre at my mum's house en el salón in the living room en el jardín in the garden guapo/a limpio/a en laglaterra in England en el extranjero abroad en el pueblo in town en el campo in the countryside en las montañas in the mountains en la costa by the seaside aburrido/a molesto/a serio/a fácil difícil estricto/a fie el agradable contento/a horrible mi hermano my brother mi hermana my sister mi padrastro/madrastra my stepdad/stepmum mi familia my family sola/a alone <b>(3) Superlatives</b> el/la menos the least el/la major the best el/la maj

before the pandemic

during lockdown

next week

next winter

antes de la pandemia

durante la cuarentena

la semana que viene

el invierno próximo

de verdad truly

bastante

un poco

tan

quite

a bit

so

realmente

particularmente

nada

really

not at all

particularly

extremadamente extremely



# (7) <u>Tenses</u>

a) To form the present tense in Spanish: For regular verbs, take the infinitive, chop off the last 2 letters of the infinitive (AR/ER/IR) and add the correct ending for the pronoun:

	AR verbs	ER verbs	IR verbs
yo (I)	-0	-0	-0
tú (you)	-as	-es	-es
él/ella (he/she)	-a	-е	-е
nosotros/as (we)	-amos	-emos	-imos
vosotros/as (you pl)	-áis	-éis	-ís
ellos/ellas (they)	-an	-en	-en

b) To form the near future tense in Spanish:

Take the present tense of the verb <u>ir + a + the infinitive</u>. **e.g. voy a** jugar al tenis = **I'm going** to play tennis

## c) To form the preterite tense in Spanish:

The preterite is a past tense that describes a completed action at a specific time in the past (e.g ayer = yesterday).For regular verbs, take the infinitive, chop off the last 2 letters of the infinitive (AR/ER/IR) and add the correct ending:

		AR verbs	ER verbs	IR verbs
yo (	1)	-é	-í	-í
tú (y	you)	-aste	-iste	-iste
él/e	lla (he/she)	-ó	-ió	-ió
nos	otros/as (we)	-amos	-imos	-imos
vos	otros/as (you pl)	-asteis	-isteis	-isteis
ello	s/ellas (they)	-aron	-ieron	-ieron
e.g.	tomar (to take) > comer (to eat) >			took) he/she ate)

1			(10) 0 11	
	(8) <u>Healthy Livin</u>	-		<u>ities – infinitives</u>
		to go to bed	ir	to go
		to fancy/feel like	jugar	to play
	• • • • •	to get (a job)	comer	to eat
		to run	visitar	to visit
		to take drugs	hacer	to do
		to get drunk	bailar	to dance
		to feel well/ill	beber	to drink
		to be on a diet	ver	to see
		to be fit	escuchar	to listen
		to avoid to smoke	leer	to read
		to try to	comprar	to buy
		to get up	terminar	to finish
		to keep fit	mirar	to watch
		to worry	escribir	to write
	probar	to try/taste	dormir	to sleep
	sentirse	to feel	nadar	to swim
	superar	to overcome	quedar	to stay/to meet
		to have a pain (in)	viajar	to travel
		to feel sleepy	cantar	to sing
		to give up (bad habit)	contactar	to contact
	4	to have a lie-in	llamar	to call
	trasnochar	to stay up late/all night	cocinar	to cook
			descargar	to download
	(9) <u>Phrases that can</u>		trabajar	to work
	ngo la intención de + infinitive	I plan to/I intend to	ayudar	to help
	e gustaría + infinitive	I would like to	mediar	to meditate
	e gusta(n) <b>mucho</b> + infinitive	I really likeing	relajar	to relax
	me gusta(n) mucho + infinitive	I don't <b>really</b> likeing do you preferingor	descansar	to rest
	refieres + infinitive o?	disfrutar	to enjoy	
	ia + infinitive	he/she hatesing		ol to sunbathe
10	suportan + infinitive	they can't standing	mandar SN	
-				



3 time frames Infinitives Time phrases

opinions justifications

justi<sup>.</sup> s

# **1.Expressing FUTURE intentions :**

Tengo la intención de + infinitive (I plan to/ I intend to ...) Me gustaría + infinitive (I would like to...)

# 2.Using infinitives after me gusta/no me gusta/odiar/preferir :

You can also use an infinitive after opinion verbs such as aimer, odiar and preferir. They are usually translated with a gerund (a verb ending with -ing) in English:

Me gusta *vivir* à Newcastle - I like living in Newcastle.

Prefieres jugar al fútbol o al tenis? - Do you prefer playing football or tennis?

Odio *beber* café porque es asqueroso – She hates drinking coffee because it's disgusting.

#### **3.Opinions**

Me gusta(n) - I like Me gusta(n) **mucho** - I like **a lot** No me gusta(n) **mucho** - I don't like **much** Prefiero – I prefer Odio - I hate No suporto - I can't stand 4.JustificationPorque - becausePor lo tanto - therefore/soPor consiguiente- consequently

## 5.Comparisons

Más.....que -more...than Menos...que -less...than Tan...como - as...as <u>6.Superlative</u> El/la más - the most El/la menos - the least El/la major - the best El/la peor - the worse

7.Time phrases Normalmente - normally	<b>Luego</b> – next	El fin de semana pasado - last weekend
Usualmente - usually	Raramente - rarely	El mes pasado - last month
Generalmente - generally	<b>El fin de semana que viene</b> – next	weekend El verano pasado-last summer
De vez en cuando/a veces –	sometimes La semana que viene- nex	t week Durante la cuarentena- during lockdown
De vez en cuando/a veces –	sometimes La semana que viene-nes	at week Durante la cuarentena- during lockdown

1. The Present TenseNormalementnormallyD'habitudeusuallyQuelquefoissometimes			EBROADOAK       Y8 & 9 French Cheat Sheet         2. The (Near) Future Tense         La semaine prochaine         next week         Le weekend prochain         next weekend         Demain         tomorrow         L'année prochaine         next year         Step 1: Take the present tense of the verb 'ALLER' (to go)			3. The Preterite (Past) Tense         La semaine dernière       next week         Le weekend dernier       next weekend         L'année dernière       next year         Perfect Tense verbs with 'AVOIR':         Step 1: Take the present tense of the verb avoir         For some verbs you need to use the verb être         (MRS VANDERTRAMP)         AVOIR: to have		
Step 1: Take the infinitive of the verb (ER/IR/RE) Step 2: Chop off the ending (ER/IR/RE) Step 3: Add the correct ending:								
PronounsER verbsIR verbsRE verbsJeeissTuesissTuesissII/Elle/Oneit-NousonsissonsonsVousezissezezIIs/EllesentissententSuper Five Irregular Verbs:There are verbs that don't follow this pattern.			go) <u>ALLER: to go</u> Je vaisI go/am goingTu vasI go/are goingTu vasYou go/are going (s.)II/Elle/On vaHe/she/one goes/is goingNous allonsWe go/are goingVous allezYou go/are going (p.)IIs/Elles vontThey go/are goingStep 2: Add an infinitive (the thing you're going to do).		J'ai I have Tu as You have II/elle/on a He/she/one has Nous avons We have Vous avez You have IIs/elles ont They have Step 2: Add the past participle (see rules below) Take the infinitive – chop off the ER + add é Take the infinitive – chop off the IR + add i Take the infinitive – chop off the RE + add u			
	important irreg , AVOIR, ALLER		rbs are on this AIRE).	C.,		oing to play vais jouer		Awesome French Things to Say j'en ai hâte! I can't wait for it!
Je <b>suis</b> tu <b>es</b>	you are		Je <b>fais</b> tu <b>fais</b> il/elle/on <b>fait</b> nous <b>faisons</b> vous <b>faites</b>	<u>to do/make</u> I do You do (s) He/she/one does <i>we do</i> you do (pl) they do (m)	Je suis Nous s Je suis	on Past Tense Verbs wit allé (e) I wen ommes allé(e)s We w resté (e) I stay ommes resté(e)s We st <u>Opinions</u> C'est – it's C'était – it was	nt vent ved	Que je sacheAs far as I knowles derniers/dernièresthe latestC'est mon trucIt's my (kind of) thingCe n'est pas mon trucIt's not my (kind of) thingen regardant la téléwhile watching TVen écoutant de la musiquewhile listening to musicen faisant des devoirswhile doing homework
NFO 2021						Ce sera – it will be		



## 9.10 Leisure and Healthy Living French Key Vocabulary

	(1) <u>Places</u>						
	chez moi / à la maison	at home					
	chez mon ami	at my friend's house					
	chez mon père	at my dad's house					
	chez ma mère	at my mum's house					
	chez mes grand-parents	at my grand-parents'					
	dans ma chambre	in my room					
	dans le salon	in the living room					
	dans le jardin	in the garden					
	dans mon quartier	in my neighbourhood					
	en Angleterre	in England					
	à l'étranger	abroad					
	en ville	in town					
	à la campagne	in the countryside					
	à la montagne	in the mountains					
	au bord de la mer	by the seaside					
ŕ							
L	(2) P	eople					

(2) <u>People</u>						
avec	with					
mon collège	my school					
mon équipe (de rugby)	my (rugby) team					
mes ami(e)s	my friends					
mon/ma meilleur(e) ami(e)	my best friend					
mon frère	my brother					
ma sœur	my sister					
mes parents	my parents					
mon beau père/ma belle mère	my stepdad/stepmum					
ma famille	my family					
seul(e)	alone					

(3) <u>Superlatives</u>						
le/la plus	the most	le/la moins	the least			
le/la meilleur(e)	the best	le/la pire	the worst			

(4)	New	time	ph	rases
		af	ter	(ward

(2) <u>People</u> avec with mon collège my school mon équipe (de rugby) my (rugby) team mes ami(e)s my friends mon/ma meilleur(e) ami(e) my best friend mon frère my brother ma sœur my sister mes parents my parents mon beau père/ma belle mère my stepdad/stepmum ma famille my family seul(e) alone (3) <u>Superlatives</u> le/la plus the most le/la moins the least le/la meilleur(e) the best le/la pire the worst		paresseu gourman sportif/i enrichiss intéress vieux/vie	
(4) <u>New tin</u> après l'été dernier avant la pandémie pendant la quarantaine la semaine qui vient l'hiver prochain	after(wards) last summer before the pandemic	très vrain assez un pe teller	quite a bit

(5) Adjectives		
gentil(le)	kind	
agréable	pleasant	
content(e)	happy	
bavard(e)	chatty	
beau/belle	beautiful	
amusant(e)	fun	
mignon(ne)	cute	
joli(e)	pretty	
propre	clean	
rapide	fast	
riche	rich	
timide	shy	
travailleur/euse	hard working	
triste	sad	
ennuyeux/euse	boring	
agaçant(e)	annoying	
sérieux/euse	serious	
facile	easy	
difficile	difficult	
stricte	strict	
moche	ugly	
bruyant(e)	noisy	
impoli(e)	rude	
horrible	horrible/awful	
paresseux/euse	lazy	
gourmand(e)	greedy	
sportif/ive	sporty	
enrichissant(e)	enriching	
intéressant(e)	interesting	
vieux/vieille	old	
reposant(e)	relaxing	
(6) Intensifiers		

) Intensifiers
----------------

très	very	trop	too
vraiment	truly	réellement	really
assez	quite	extrêmement	extremely
un peu	a bit	pas du tout	not at all
tellement	so	particulièrement	particularly



# (7) <u>Tenses</u>

a) To form the present tense in French: For regular verbs, take the infinitive of the verb, chop of the last 2 letters (ER/RE/IR) and add the correct ending for the pronoun:

	ER verbs	RE verbs	IR verbs
je (I)	-е	-s	-is
tu (you)	-es	-S	-is
il/elle (he/she)	-е	-	-it
nous (we)	-ons	-ons	-issons
vous (you pl)	-ez	-ez	-issez
ils/elles (they)	-ent	-ent	-issent

#### b) To form the near future tense in French:

Take the present tense of the verb aller + the infinitive. e.g. Je vais jouer au tennis = I'm going to play tennis

### c) To form the perfect tense in French:

The perfect is a past tense that describes a completed action at a specific time in the past (e.g hier = yesterday). For regular verbs, use the verb avoir, then add the correct past participle for the infinitive (ER/RE/IR) (see rules below)

j'ai	l (have)	Past Participle
tu as	you (have)	ER verbs → é (mangé)
il/elle a	he/she (has)	RE verbs → u (vendu
nous avons	we (have)	IR verbs → i (fini)
vous avez	you (pl) (have)	(,
ils/elles ont	they (have)	
vendre (to	eat) > mangé sell) > vendu ish) > fini	<ul> <li>&gt; j'ai mangé (I ate)</li> <li>&gt; il a vendu (he sold)</li> <li>&gt; nous avons fini (we finished)</li> </ul>

	(8) <u>Healthy Living - infinitives</u>			(10) <u>Activities – infinitives</u>	
	se coucher	to go to bed		aller	to go
	avoir envie de	to fancy/feel like		jouer	to play
	trouver (un travail)	to get (a job)		manger	to eat
	courir	to run		visiter	to visit (place)
	se droguer	to take drugs		faire	to do
	se soûler	to get drunk		danser	to dance
	(ne pas) se sentir bien	to feel (un)well		boire	to drink
	suivre un régime	to be on a diet		voir	to see
	être en forme	to be fit		écouter	to listen
	éviter	to avoid		lire	to read
	fumer	to smoke		acheter	to buy
	essayer de (+infinitive) se lever	to try to		finir	to finish
	rester en forme	to get up to keep fit		regarder	to watch
	s'inquiéter	to worry		écrire	to write
	goûter	to try/taste		dormir	to sleep
	sentir	to feel		nager	to swim
	surmonter	to overcome		rester	to stay
	avoir mal (au/à la/à l'/aux)			voyager	to travel
	avoir sommeil	to feel sleepy		chanter	
	arrêter	to give up (bad habit)			to sing
	faire la grasse matinée	to have a lie-in		contacter	to contact
	veiller tard	to stay up late		appeler	to call
				cuisiner	to cook
	(9) Phrases that ca	n use an infinitive		-	to download
a	voir l'intention de + infinitive	I plan to/I intend to		travailler	to work
je	voudrais + infinitive	I would like to		aider	to help
ľ	aime <b>bien</b> + infinitive	I really likeing		méditer	to meditate
je	n'aime pas bien + infinitive	I don't really like ing	g 📕	se détendre	
ťı	préfères + infinitive ou?	do you preferingo	-	se reposer	
	déteste + infinitive	he hatesing		apprécier	to enjoy
ils	s ne supportent pas + infinitive			bronzer	to sunbathe
L			-	envoyer des	SMS to text



# Languages [



Quelle est ta matière préférée?	What is your favourite subject?
L'anglais	English
🚝 L'espagnol	Spanish
Le français	French
eg Le théâtre	Drama
🌮 Le dessin	Art
🦃 Le sport (L'EPS)	P.E.
🛃 L'informatique	I.C.T. (Computer Studies)
La musique	Music
🕞 La technologie	D.T.
🚮 La géographie	Geography
L'histoire	History
🚟 La religion	R.S. (Religious Studies)
L'éducation civique	P.S.H.E (Health and Wellbeing)
Les mathématiques	Maths
Les sciences	Science

Quelles sont les règles?	What are the rules?
On ne doit pas	You must not
On ne peut pas	You can not
Il faut	You must
Il est interdit de/d'	It is forbidden to
Écouter en classe	(to) listen in class
Utiliser son portable en	(to) use your phone in class
classe	
Porter les bijoux	(to) wear jewellery
Porter le maquillage	(to) wear make-up
Porter les baskets	(to) wear trainers
Manquer les cours	(to) miss lessons
Être à l'heure	(to) be on time
Mâcher du chewing-gum	(to) chew chewing-gum
Faire ses devoirs	(to) do homework

	Qu'est-ce que tu en penses?	What do you think of it?
Ī	C'est/Ce n'est pas	It is/It is not
	Intéressant (e)	Interesting
	Pratique	Practical
	Utile/inutile	Useful/not useful
	Facile/Difficile	Easy/difficult
	Ennuyeux (se)	Boring
	Passionnant (e)	Exciting
	Créatif (ve)	Creative
	Important (e)	Important
	Тгор	Тоо
	Très	Very
	Assez	Quite
	Un peu	A bit (a little)
	du tout	At all

Qu'est-ce que tu voudrais faire dans le futur?	What would you like to do in the future?
Je vais	l am going
Je voudrais/J'aimerais	I would like
Réussir mes examens	To pass my exams
Recevoir des bonnes notes	To get good results
Faire un apprentissage	To do an apprenticeship
Chercher du travail	To search for a job
Faire du bénévolat	To do voluntary work
Voyager le monde	To travel the world
Avoir des enfants	To have children
me marier	To marry
Apprendre à conduire	To learn to drive
Devenir	To become
Médecin/Veterinaire	A doctor/a vet
Professeur/Avocat(e)	A teacher/a lawyer
Mécanicien(ne)/Plombier(ière)	A mechanic/a plumber
Pompier (ière)	A firefighter
Coiffeur(euse)	A hairdresser

Comment est ton	What is your school
uniforme scolaire?	uniform like?
Je porte	Iwear
🔔 ll faut porter	You must wear
🕅 Une veste/ un blazer	A blazer/jacket
🕰 Un pull	Ajumper
Une chemise	Ashirt
T Un t-shirt	A t-shirt
📱 Une cravate	Atie
🖾 Une jupe	Askirt
Des chaussettes	Socks
🗍 Un pantalon	Trousers
🛎 Des chaussures	Shoes
👖 Un collant	Tights
) Moche	Ugly
Beau/belle	Beautiful
(In)confortable	(un)comfortable
Cher	Expensive
Pas cher/bon marché	Not expensive/cheap
À la mode	Fashionable
Démodé(e)	Old-fashioned

La journée scolaire	The school day
Je quitte la maison	I leave the house
Je vais au collège	l go to school
Les cours commencent à	Lessons start at
Les cours terminent à	Lessons end at
Ça dure	It lasts
La récréation	Breaktime
L'heure du déjeuner	Lunchtime
Le matin	The morning
L'après-midi	The afternoon
Le soir	The evening



French – my school

School – Subjects, uniform and time Future plans & jobs

The present tense	ER verb	IR verb	RE verb	
Je (I)	-е	-is	-S	
tu (you)	-es	-is	-S	
II/Elle/On (he/she/one)	е	-it	-	
Nous (we)	-ons	-issons	-ons	
Vous (you all)	-ez	-issez	- ez	
lls /Elles (they)	-ent	-issent	-ent	

# The future tense in French

You can talk about the future by using the near future tense. Use part of the verb ALLER and the infinitive to say what you are **going** to do.

*Ce soir, je vais jouer au tennis. This evening I am going to play tennis. Demain, Paul va faire un gâteau. Tomorrow Paul is going to make a cake.* 

You can also use the following phrases with an infinitive to refer to the future.

Je veux= I want Je voudrais = I would like

J'aimerais = I would like

J'espère = I hope

# Adjectives describe nouns e.g., a <u>black</u> blazer.

In French, adjectives normally go after the words they are describing e.g., une chemise bleue (a blue shirt) and they must agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes is feminine, the adjective must be feminine e.g., une veste noire (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g., les chaussettes noires (black socks).

<u>Comparatives</u> – to express more or less than ... est plus + adjective + que - is more...adjective...than ... est moins + adjective + que - is less...adjective... than ... est aussi + adjective + que - is as ...adjective...as For example: L'anglais est plus intéressant que la géographie. (English is more interesting than Geography) L'histoire est moins active que l'E.P.S. (History is less active than PE) Le français est aussi difficile que les maths. (French is as difficult as maths).



1.Expressing FUTURE intentions : J'ai l'intention de + infinitive (I plan to/ I intend to ...) Je voudrais + infinitive (I would like to...)

2.Using infinitives after j'aime/je m'aime pas/je déteste/je préfère :

You can also use an infinitive after opinion verbs such as aimer, détester and préférer. They are usually translated with a gerund (a verb ending with -ing) in English:

J'aime habiter à Newcastle - I like living in Newcastle.

Tu préfères jouer au foot ou au tennis? - Do you prefer playing football or tennis?

Je déteste boire du café parce que c'est dégoûtant - She hates drinking coffee because it's disgusting.

3.Opinions J'aime - I like J'aime beaucoup- I like a lot Je n'aime pas beaucoup- I don't like much Je préfère – I prefer Je déteste - I hate Je ne peux pas supporter - I can't stand	4.Justification Parce que - because Ainsi– therefore/so Par conséquent - consequently	5.Comparisons Plusque –morethan Moinsque – lessthan Aussique – asas <u>6.Superlative</u> Le/la plus – the most Le/la moins – the least Le/la mieux – the best Le/la pire – the worse
7.Time phrases Normalement - normally D'habitude - usually Géneralement - generally Quelquefois – sometimes week	Rarement - rarely	



# YEAR 9 ART – The Present

# YEAR 9 ART – THE PRESENT

**Content:** In this project you learn to recognise that Art helps us to understand and negotiate our emotions and place within the world. Art can influence the way we think and act as individuals, and as a society. Artwork can encourage debate & thought around current world issues and encourage you to look outside of ourselves.

Develop skills- drawing, shading, painting, appropriation, using materials to demonstrate the influence of other artists in your own work and presentation

Outcome- Create a personal response related to the themes & artists.





Above: A painting by Basquiat, who died aged 27, is most expensive at auction of any US artist, also breaking record for a black artist.





#### Research

We will be developing independent research skills that will allow you to apply skills and techniques from artists you like to your personal responses.

The techniques are also very useful in other subjects and will help you to prepare for higher levels of schooling as many subjects at A-Level and Undergraduate are reliant on being able to produce high quality research.

# Keywords:

Culture Connectivity Identity Activism Inequality Ethnicity Values Consumerism Globalisation Protest Rebellion

# Analysis

All artist research pages should be aannotated and include:

#### A Title = The aartist's name

- Describe the work-what does it look like? Use the formal elements i.e., colour, line etc.
- What techniques/materials were used?
- What is your opinion of the work? What ideas do you have your own that come to mind?

#### Sentence starters

I like/dislike the way the artist has used...because... I think the colour scheme used is effective because... I think the artist has been inspired by...because...

#### Evaluation of Your Artwork-

What inspired you to create the piece? What techniques did you use and why? What does it mean to you? How is it relevant to your idea?

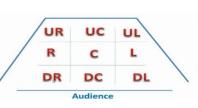
#### Sentence starters

The technique I have used k... The skill/technique I found most difficult was...because...

I think my work is successful because...

# Year 9: Devising from Stimulus

# How can we respond to stimuli to create a piece of devised theatre?





	Devising Drama Responding to Stimulus			Proscenium Arch	Thrust Stage	Theatre in the Round
1	What ideas initially come to mind?	7	What research will you undertake?		- 500	
2	What does this make you think of?	8	What did you find out?	www.scenography.cb.uk	www.scenography.cu.uk	Here scengeraphy of the
3	How does the stimulus make you feel?	9	What do you want to show through your character?		Trade large 10 (1)(1)(1) and (1)(1)(1)	
4	What themes do you associate with your stimulus?	10	What was the initial purpose of your piece? What messages do you want to show?	Traverse	Promen	ade
5	What characters do you associate with your stimulus?	11	How do you want the audience to respond to your performance?	www.scenography.co.uk		
6	What settings do you associate with your stimulus?	12	How do you want your audience to respond to your characters?			

	Performance Skills							
13	Gait	The way you walk	17	Interactio n	How you use eye contact and proxemics to show relationships	22	Tone	The way in which you use your voice to show mood
14	Posture	The position you hold your body when standing or sitting		Voice		23	Emphasi s	Changing your voice by adding focus
15	Stance	The way you stand	18	Pitch	How high or low you voice is to show age or emotion	24	Intonati on	The rise and fall of your voice
16	Body Language	How you express you emotions through your body	19	Расе	How fast or slow you speak	25	Accent	To show which country you are from
17	Facial Expression	Showing your character's emotions through the way in which your contort the muscles in your face	20	Pause	How you show emotion through gaps in your dialogue	26	Enuncia tion	How clearly you speak
16	Gesture	A small hand or head movement to communicate meaning	21	Volume	How high or low your voice is	27	Dialect	To show which region you are from

# Music For Moving Image Key Terms

- Sforzando A sudden increase in volume **Cluster Chord** – A chord made of pitches close together **Diatonic** – Only using pitches from the key **Dissonance** – Music that uses clashing sounds **Chromatic** – Using notes from outside the key **Conjunct Melody** – Melody that uses steps **Disjunct Melody** – Melody that uses leaps **Pedal notes** – Repeating bass notes Leitmotif – A short melody linked to a character/theme/place **Ostinato** – A short repeating pattern Crescendo – A gradual increase in volume **Dimminuendo** – A gradual decrease in volume **Mickey Mousing** - Syncronising action on screen with music and sounds
- **Tonality** If the music is Major, minor or Atonal **Texture** – the layers of sound

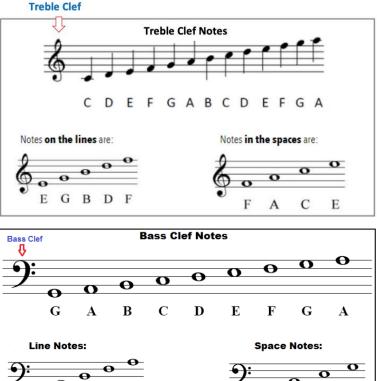
**Tempo** – the speed of the music set by the pulse **Dynamics** – the volume of the music



<b>Y9</b>	Music
<b>Music For</b>	Moving Image

			Ani
	Note Pyramid		Cor
Name	Symbol	Rest Symbol Value of ea	ch
Semibreve	0	4	Dra
Minim		2	Fan
Crotchet		<b>≹</b> 1	
Quaver		7 ½	т
Semiquaver		7 1/4	
C <sup>#</sup> D <sup>b</sup> E C <sup>#</sup> D <sup>b</sup>	Sharp raises Flat lowers t	$ \begin{array}{c c} E^{\flat} & G^{\flat} & A^{\flat} \\ D^{\#} & F^{\#} & G^{\#} \\ \hline D & E & F & G \\ \end{array} $ the note by one semiton he note by one semiton ores a note to its origin	one. le,
			Bass Cl

Film Genres: Action	Horror Musical
Adventure	Period
Animation	Romance
Comedy	Science Fiction
Drama	Thriller
Fantasy	Western



С

E

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A

# **Design Technology Year 9** Light project

# CLIENT TARGET MARKET

Knowing your Client and Target market enables the designer to make better design decisions by focusing on what the requirements are and who the product would be for identifying their needs are: Examples

Children (3-5yrs) – Bright colours, small to fit into their hands, safe smooth edges.....



**IKEA** as a client will priorities price and sustainability

# **Ergonomics and Anthropometrics**

**Ergonomics:** an applied science concerned with designing and arranging things people use so that the people and things interact most efficiently and safely. Making use and maintenance easier causing less strain or damage to the user.

## Anthropometrics: is the

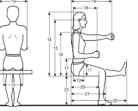
comparative study of the measurements and capabilities of the human body. Anthropometry is the measurement of body sizes at rest and when using devices such as chairs, tables, beds, mobility devices, and so on.

Question: How do you consider these in everyday products?

**Ergonomics:** Easy to...Clean, weight of products, the comfort that helps your posture .....



Anthropometric:



# **Analysing Products:**

**To compare means:** To estimate, measure, or note the similarity or dissimilarity between. "individual schools compared their facilities with those of others in the area"

You identify differences between products and compare the good and the bad in products all the time, this is often how you decide if your going to replace your phone for example; is it worth the upgrade, should you have android or apple what's the difference? Using descriptive Simile language is the key:



Simile - a descriptive technique that compares one thing with another, usually using 'as' or 'like'. Example: The base of the lamp is rounded like a pear.

The then extend by explain **Why** this is <u>better or worse</u> than the other: This could make it more balances and stable that the fine lever parts of the other light.



is for Aesthetics A ۲ Weight? Style? С £ is for Cost С is for Customer is for Environment 🕄 Ε S is for Size S is for Safety is for Function ¢ò, F Μ is for Material made? What manufacturing techniques were used?

Aesthetics means what does the product look like? What is the: Colour? Shape? Texture? Pattern? Appearance? Feel?

Cost means how much does the product cost to buy? How much does it: Cost to buy? Cost to make? How much do the different materials cost? Is it good value?

Customer means who will buy or use your product? Who will buy your product? Who will use your product? What is their: Age? Gender? What are their: Likes? Dislikes? Needs? Preferences

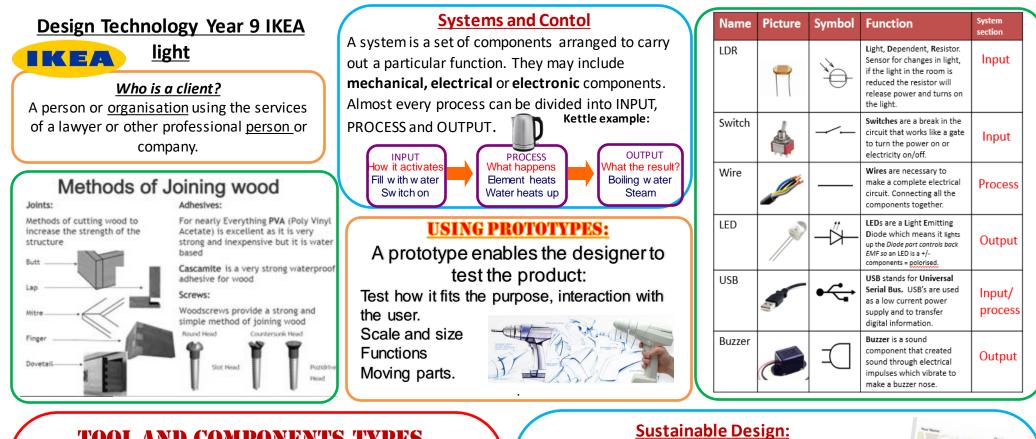
Environment means will the product affect the environ Is the product: Recyclable? Reuseable? Repairable? Sustainable? Environmentally friendly? Bad for the environment 6R's of Design: Recycle / Reuse / Repair / Rethink / Reduce / Refuse

Size means how big or small is the product? What is the size of the product in millimeters (mm)? Is this the same size as similar products? Is it comfortable to use? Does it fit? Would it be improved if it was bigger or smaller?

Safety means how safe is the product when it is used? Will it be safe for the customer to use? Could they hurt themselves? What's the correct and safest way to use the product? What are the risks?

Function means how does the product work? What is the products job and role? What is it needed for? How well does it work? How could it be improved? Why is it used this way?

Material means what is the product made out of? What materials is the product made from? Why were these materials used? Would a different material be better? How was the product



# **TOOL AND COMPONENTS TYPES**

We use tools to make the product. Components are the parts that become part of the final product, often referred to as 'off the shelf parts' as they are manufactured in their 1000's

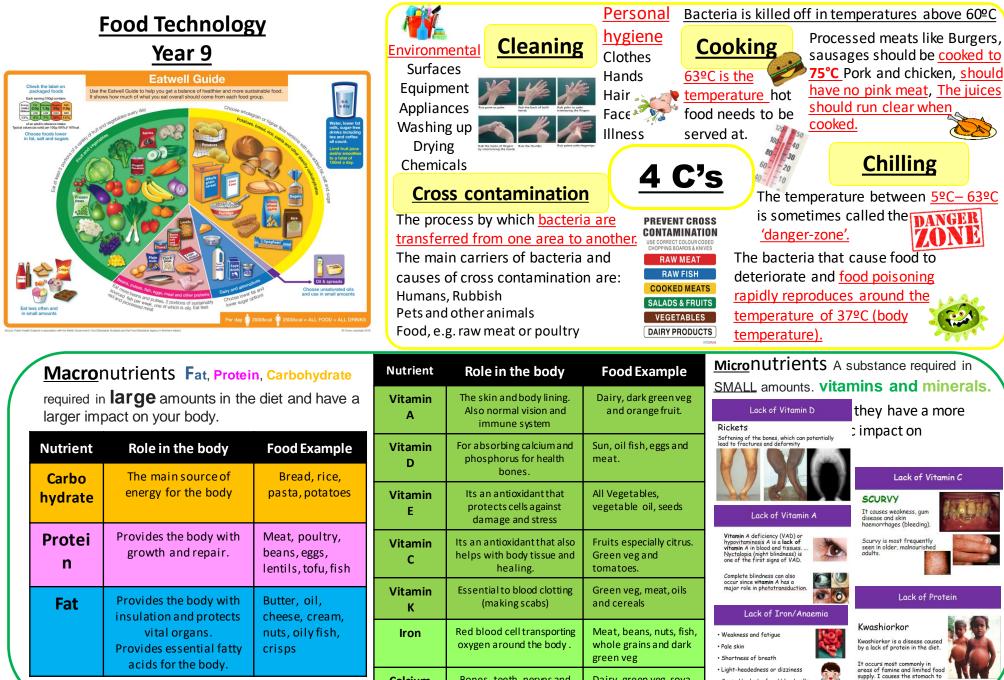


Sustainable design is the approach to creating products and services that have considered the environmental, social, and economic impacts from the initial phase through to the end of life.

## Key ways of doing this:

Sourcing materials, recycling, reusing means these materials don't end up in landfill, destroying landscapes. Using woods that are FSC certificated, means they grow quickly; like pine will help to stop deforestation. Minimising waste; making sure that all the materiel is used to minimise waste, means that we are not wasting the planets resources and not adding to landfill.





Bones, teeth, nerves and

muscles. Also helps

clotting

Dairy, green veg, soya

beans and bread.

· Caused by lack of red blood cells

Calcium

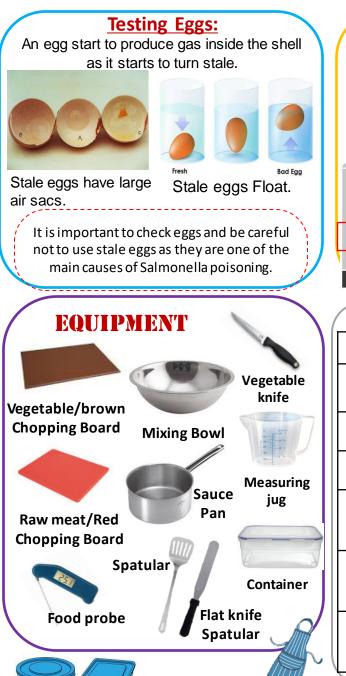
# Food Technology

<u>Year 9</u>

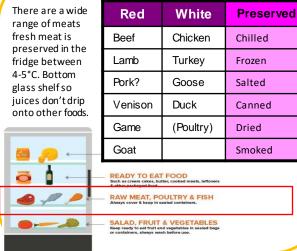
<u>What is a the 'Bacteria'?</u> Bacteria <u>are tiny living cells</u> that are found everywhere, they are: Microscopic and the most common cause of food poisoning.

# BACTERIA

Bacteria	Symptoms
Salmonella Source Based of the second of the	Symptoms: Fever, headache, aching limbs, abdominal pain, nausea, diarrhoea, sometimes vomiting
<b>Listeria</b> Soli, water, vegetation, domestic animals, man Fods found in: Raw milk, seadood, vegetables, pate, soft cheeses, meat products	Symptoms: Normal host- mild fever, influenza type symptoms At risk host-Fever, intense headache, nausea, vomiting, infection of feutus, septicemia, meningitis, still birth
BacillusCarceusSource:Source:CarceusSource:CarceusSource:CarceusSourceusCarceusSourceusCarceusSourceusSo	Symptoms: Abdominal pain, severe vomiting, diarrhoea, abdominal cramps- sometimes collapse
Escherichia coli Source: Large intestine- faeces Data Source: Large intestine- faeces Coda found in: Unwashed vegetables, undercooked meat, contaminated water, raw milk	Symptoms: Severe abdominal cramps, watery diarrhoea, bloody diarrhoea, nausea, vomiting



# **Meat Commodities:**



Special Dietary needs:		
Special Diet:	Needs to avoid:	
Vegan	Will not eat meat or animal products; eggs, dairy, honey. This is an ethical choice.	
Vegetarian	Will not eat meats or fish. This is an ethical choice.	
Pescatarian	Will not eat meats will eat fish. This is an ethical choice.	
Nut Allergy	Avoid nuts, nut oils and anything that may have come into contact with nuts. <b>This is fatal</b> , Epi-pen to stop the reaction.	
Lactose intolerance	Will avoid dairy products, particularly cheese and milk. Can not digest Lactose, cause stomach problems.	
Gluten intolerance	Avoid wheat products, particularly with flour. Can not digest Gluten, cause stomach problems.	

# <u>Photography Year 9 – Understanding the Camera</u>

We need photographers. They are the ones who sort all the chaos of the world into images that bring clarity to the free-for-all of life. They are the witnesses and artists who can distil the mayhem and beauty that surrounds us.

They call our attention to the things we miss in our everyday lives and they call our attention to events and people at a great distance from our own patch of the universe.

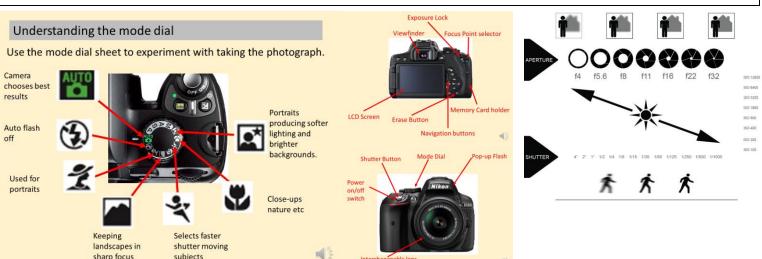
## **Key Words:**

**Aperture**: Aperture is the first common photography term you should learn. Simply put, aperture is the size of the opening in the lens.

Depth of Field: Depth of field is a photography term that refers to how much of the image is in focus.

**Exposure**: Exposure is how light or dark an image is. An image is created when the camera sensor (or film strip) is exposed to light

**Shutter Speed:** The shutter is the part of the camera that opens and closes to let light in. Shutter speed is how long that shutter stays open







# **Broadoak Above and Beyond Challenges**

Curriculum Area	How to develop your curiousity
English	Read a book of your choosing and write a book review.
Maths	Write a colourful set of instructions/flow diagram for solving questions/equations you have been working on this term.
Science	Research a scientist of the past create a fact-file of their background and achievements and impacts.
Humanities	Create a film reporting on a historical, geographical or religious event you have looked at.
MFL	Make a booklet for the year below you about how to be a successful linguist.
The Arts	Research and make a fact-file on an artist, chef or inventor of your choosing.
Performing (Music and Drama)	Watch live or online a performance of your choosing and write a review for a magazine, rating and evaluating it.
PE	Try a new sport and make a video diary about how you felt before and after.

**Due**: First week after Spring break, by 21st April 2023 **Where**: Give to your subject class teacher first lesson back.

