Name:





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How to learn over time

Successful Learning Takes Place Over Time

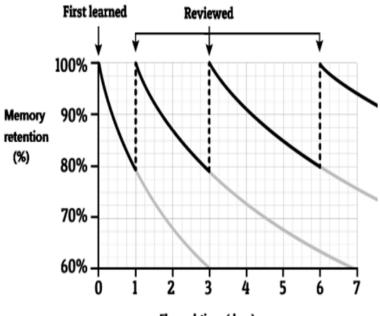


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam. 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



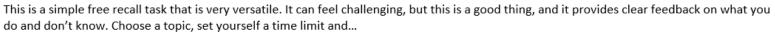
Spacing out your learning over time is far more effective than last-minute cramming. This is based on research into how we forget and how we remember. The speed at which we forget something will depend on many factors such as the difficulty of the material, how meaningful it was to us, how we learned 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.



Elapsed time (days)

Revision Strategies

List It



- 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.	Don't: Xspend more time making flashcards than actually using them.	1861	groynes	osmosis	Where is the pharmacy?
√ √	sort your flashcards according to your confidence with them (see below).	Xrevise the flashcards in the same	Pasteur published his paper about	A low wall on the coastline which slows longshore drift	Net movement of water from a high concentration to low concentration across a	Où est la pharmacie?
Ŷ	test yourself on the flashcards from memory.	order every time that you use them. Xonly read through flashcards.	germ theory.	siows iongshore drift	partially permeable membrane	

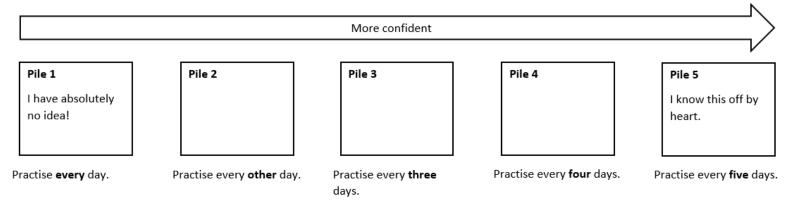
How to make flashcards:

- 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.

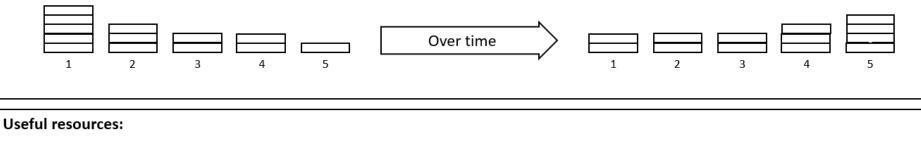
Definition 1	Definition 2	Definition 3	Definition 4	Definition 5
Answer 1	Answer 2	Answer 3	Answer 4	Answer 5

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):

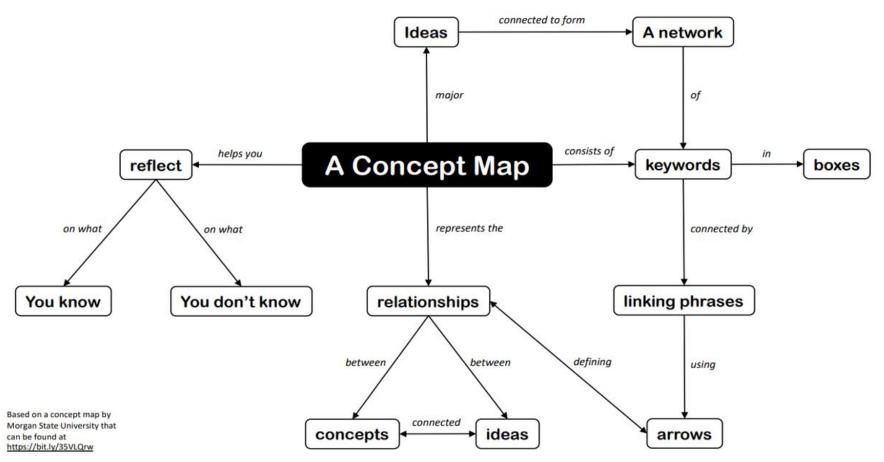


5. As you test yourself on the different piles, move the cards into different piles as you become more confident.



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.







Context

English

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 19th 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 19th 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 19th 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
 H. G. Wells 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>, 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 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, <u><i>The Time Machine</i></u>. The book tells of a nameless Time Traveller who uses 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 experiments on animals, addresses such issues as <u>evolution</u> and <u>ethics</u>. <i>The Invisible Man</i> (1897) follows the life and death of a scientist uses that ability to commit crimes, including murder. Wells's 1898 book <i>The Warl of the Worlds</i> details a 	1726	Gulliver's Travel 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
	1818	Frankenstein: Modern Prometheus Frankenstein is seen as a warning against the expansion of science without a moral context.
	1870	Twenty Thousand Leagues Under the Sea 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.
	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.
	1932	Brave New World Huxley imagines a dystopian world. His vision of the future questions where technology might take us.
catastrophic conflict between humans and extraterrestrial "Martians."		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.





War of the Worlds



	The plot Book 1		
Ch 1 The Eve of the War	The Narrator describes Earth in the early twentieth century. During the last few years of the nineteenth century, Earth was being watched closely by a higher intelligence on Mars. Humans are unaware and dismiss the idea of life on Mars as impossible. Thebeings on Mars view humans much like humans view other animals, "as lowly and alien" as monkeys. Since Mars is older and smaller than Earth, the lifespan and resources of the planet are running out. The beings on Mars see the vast resources of Earth. The Narrator meets Ogilvy, an astronomer, and visits his observatory outside of Ottershaw. The two look at Mars through the telescope and see the venting of gases. They do not know that they are seeing the launch of projectiles toward Earth. While the projectiles traveltoward Earth, life goes on peacefully, as no one is aware of the impending threat.		
Ch 2 The Falling Star	A falling star is seen over Winchester. Ogilvy investigates and finds the crash site of a large metal cylinder in Horsell Common. It is still extremely hot, so he is unable to get very close. Ogilvy does notice that the end which protrudes from the ground is slowly rotating. He connects what he saw the previous night on Mars through his telescope and determines that there must be men inside. He runs to town, but people dismiss his story. He finds a London journalist, Henderson, and convinces him to come to the crash site. Finding that the cylinder has stopped moving, they return to town, where Henderson telegraphs the newspaper. When the Narrator reads of the crash site in his newspaper, he travels from his home in Woking to Horsell Common.		
Ch 3 On Horsell Common	The Narrator arrives at the cylinder's crash site, where a small crowd has gathered at the edge of the crater. The table-sized end cap is no longer rotating, but he notices a yellowish-white metal between the cap and the cylinder. He believes that the cylinder must be full of information from Mars, and not living beings. He becomes impatient and returns home. He returns after the evening papers have reported "a message received from Mars." Henderson, Ogilvy, Stent (the Astronomer Royal) and several workmen are trying to unearth the portion of the cylinder that is still embedded in the ground. Ogilvy asks the Narrator to contact Lord Hilton, who owns the property, to remove all of the onlookers, who are impeding the excavation. The Narrator is pleased to be involved, finds outthat Lord Hilton will be arriving by train soon, and heads to the train station.		
Ch 4 The Cylinder Opens	The Narrator returns at sunset. Several hundred people have gathered. He elbows his way through the crowd and hears Ogilvy yeling to keep everyone back, since no one knows what is inside the cylinder. The end of the cylinder twists itself off and the Narrator stares into the dark emptiness of the cylinder. Gray tentacles, the thickness of a walking-stick, emerge from the cylinder, followed by a "rounded bulk" the size of a bear. The Narrator describes its movement as slow and painful, due to the difference in gravitybetween Mars and Earth. He adds that it is difficult to imagine the "strange horror" of a Martian's appearance, with a V-shaped mouth, large pair of eyes, rounded body and mass of tentacles. The Narrator retreats to a group of trees and tries to watch. The crowd hasalmost entirely dispersed, but he can no longer see what is happening in the pit around the cylinder.		





War of the Worlds



	The characters				
The Narrator	The main protagonist and sole narrator. As an amateur astronomer, he is one of the first to notice a flash from Mars. He is courageous but he is occasionally overcome by fear during the invasion. He claims to have more first-hand knowledge of the Martians than any other living human.	The Martians	The technologically advanced aliens who invade Earth. They are extremely combative and relentless in their destruction of Earth and humans. Their major weapons are heat-ray guns and poisonous black vapor.		
Henderson	A journalist from London. Henderson is the first person to believe Ogilvy about what he has seen, and he hurries to see for himself. Along with Stent and Ogilvy, he is part of the first group to approach the Martians.	Oglivy	A well-known astronomer and friend of the Narrator. He is the first to see fiery gas coming from Mars, and he invites the Narrator to look at Mars through his telescope the next night. Along with Stent and Henderson, he is part of the first group to approach the Martians		
Stent	The Astronomer Royal. He leads a group of men to try to excavate the cylinder, and along with Ogilvy and Henderson, is part of the first group to approach the Martians.	The Curate	An unnamed man of the cloth and foil to the Narrator. His crisis of faith leaves him shaken and makes him behave in immoral ways. He refuses to accept the reality of the dire situation despite the concrete evidence that surrounds him.		



English





	The plot Book 1
Ch 8 Friday Night	Life continues as normal in the region around Horsell Common. Most of the people who were present have been killed, and those who escaped are treated as if they are deranged. Since Henderson stopped sending updates, the newspaper does not take the story seriously. Anyone else who has tried to approach the pit has been incinerated. A military regiment has been activated, however, and several dozen artillerymen deploy on the edges of the common to investigate. Just after midnight, a second cylinder streaks across the sky.
Ch 9 The Fighting Negins	The following day, the artillerymen surround the Martians at the first crash site. The Narrator travels down to the bridge and talks to a group of artillerymen who have not seen the Martians yet. They question the Narrator about the Martians and then argue amongst themselves about how to deal with them. The Martians have not left their pit and seem to be readying for a battle. The Narrator returns home, where he hears artillery shells thudding at the second Martian crash site. Explosions and gunfire erupt at the first Martian crash site, and several buildings around the Narrator's home are destroyed. He realizes that the Heat-Ray is within range of his home. He grabs his wife and servant, secures a horse and cart from his neighbour, and rides toward Leatherhead. The hills and buildings are burning behind him as he rides away.
Ch 10 In the Storm	The Narrator travels twelve miles to Leatherhead. He leaves his wife and servant with his cousins and turns back toward his home, so that he can return the horse and cart. He sees a third falling star and knows that it contains more Martians. Late at night, he nears his home. A hailstorm with lightning has started. The Narrator sees two large metal machines rise over the hill. He describes them as a tripod with a large dish at the top. He watches them break through lines of trees like a man walks through reeds. The Narrator tries to turn the horse cart, but instead it tumbles over, killing the horse. He hides as the two large machines pass near him. He finds cover and works his way home in the dark.





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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.			
Imperialism	a policy of extending a country's power and influence through <u>colonization</u> , use of military force, or other 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			
Oppression	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 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 clear evidence that the Martians are technologically advanced, highly evolved, and very intelligent, the government and people have faith in the strength of their military's weapons.	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.
		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.
		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.
EvolutionThe book is an homage to Darwin's theories of evolution and natural selection. At the time this book was written, Darwin's On the Origin of SelectionSelectionSpecies was almost forty years old, but his theories were not widely accepted yet. It becomes clear to 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, that something as small as bacteria takes them out.	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, that	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.



English [



Poetry				
An Address to Potential Aliens by John Hegley	The poem consists of several rhetorical questions which makes the reader wonder if aliens, if they exist, share similarities to humans.			
	Many of the examples are from the mundane aspects of life and the common experiences of being human.			
You laughed and laughed and laughed by Gabriel Okara	Gabriel Okara's poem consists of 10 stanzas and describes the different interpretations of sounds, sights, and dances. The interaction that takes place within the poem is commonly thought to be between a white colonialist and an African native. Okara's poem presents a wiser African intellectual. The poem concludes with the African man teaching the White Man of his ignorance and helping him realize that the native beliefs of the African are not primitive nor removed from intellectual thought.			
A Vision Simon Armitage	The poet speaks about town planning and how town planners were asked to draw up plans for future sustainable houses. Smaller displays were made that were featured in the town halls for the public to see. The poet describes those models complete with miniature detail and imagined inhabitants. The poem gives a beautiful description of the ideal civic life, subverted by the final revelation that the "Cities like dreams", which these models encapsulate, are "now fully extinct". The poet tells us how those displays were thrown away into the landfill sites and the planner's dreams never came true.			

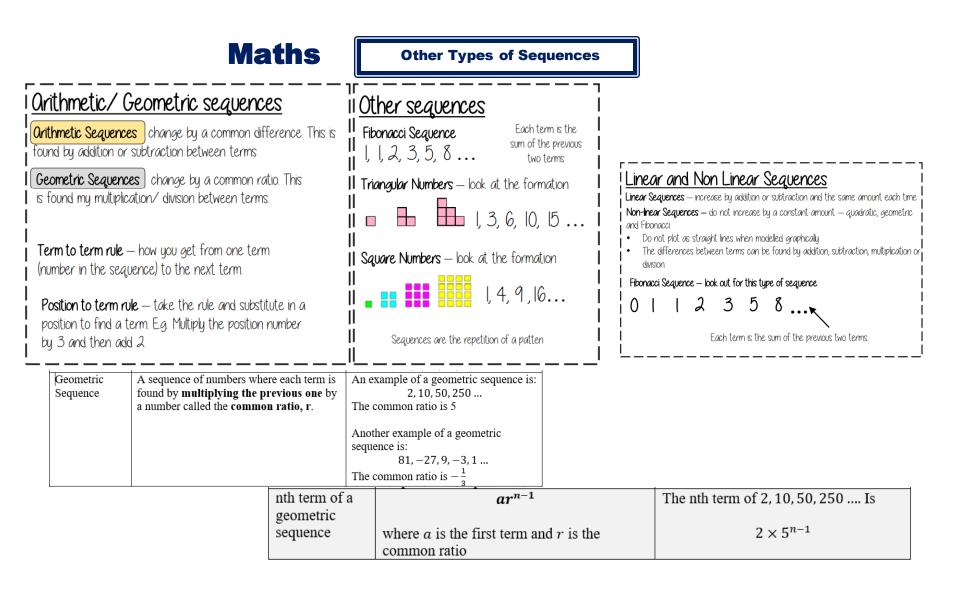


Quadratic sequences

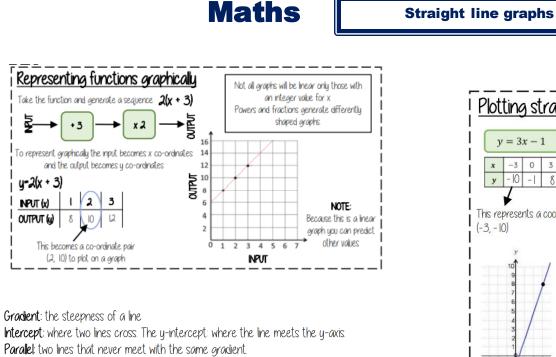
Quadratic	A sequence of numbers where the second	2 6 12 20 30 42
Sequence	difference is constant .	+4 +6 +8 +10 +12
	A quadratic sequence will have a n^2 term.	+2 +2 +2 +2

nth term of a quadratic	 Find the first and second differences. Halve the second difference and multiply 	Find the nth term of: 4, 7, 14, 25, 40
sequence	this by n^2 .	Answer:
	3. Substitute $n = 1,2,3,4$ into your	Second difference = $+4 \rightarrow$ nth term =
	expression so far.	$2n^2$
	4. Subtract this set of numbers from the	
	corresponding terms in the sequence from	Sequence: 4, 7, 14, 25, 40
	the question.	$2n^{\bar{2}}$ 2, 8, 18, 32, 50
	5. Find the nth term of this set of numbers.	Difference: 2, -1, -4, -7, -10
	6. Combine the nth terms to find the overall	
	nth term of the quadratic sequence.	Nth term of this set of numbers is
		-3n + 5
	Substitute values in to check your nth term	
	works for the sequence.	Overall nth term: $2n^2 - 3n + 5$

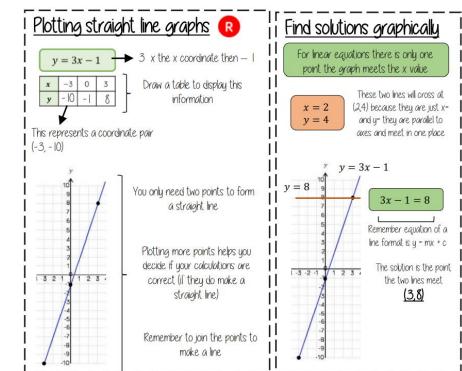




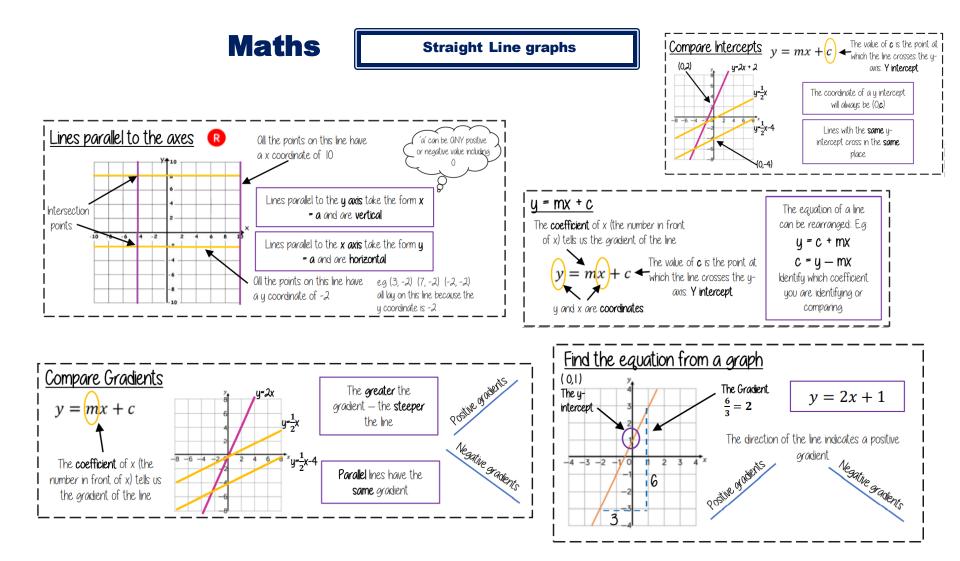




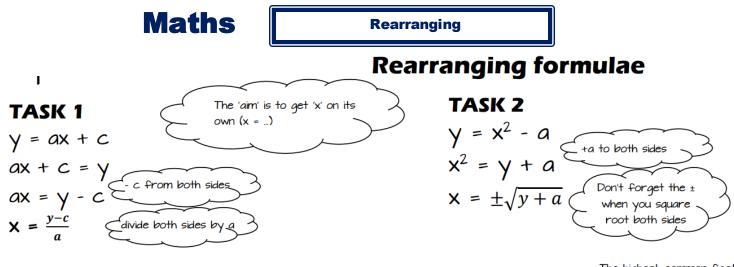
Intercept: where two lines cross. The y-intercept: where the line meets the y-axis. Parallel: two lines that never meet with the same gradient. Co-ordinate: a set of values that show an exact position on a graph. Linear: linear graphs (straight line) — linear common difference by addition/ subtraction Osymptote: a straight line that a graph will never meet. Reciprocal: a pair of numbers that multiply together to give l Perpendicular: two lines that meet at a right angle.



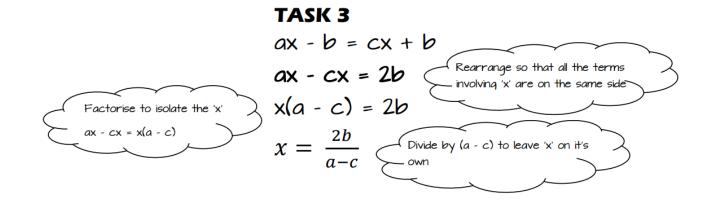




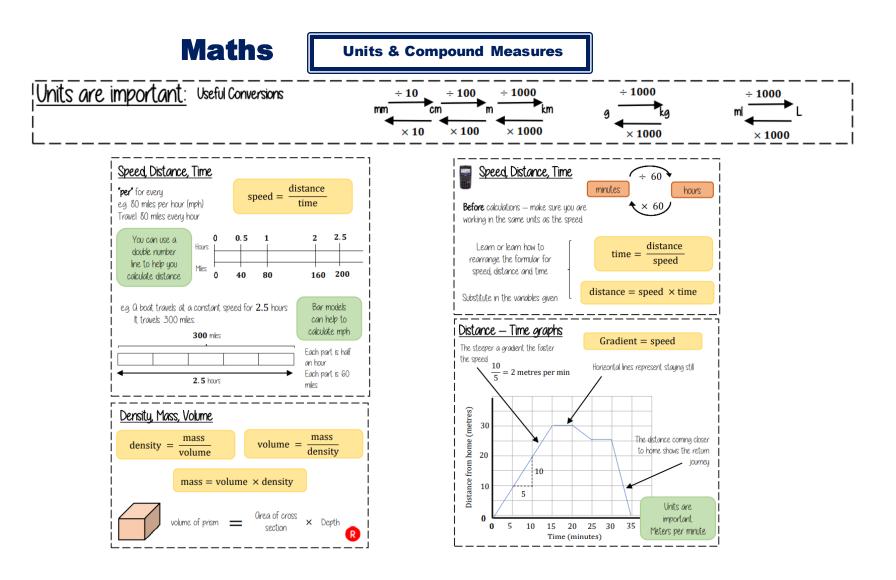




The highest common factor of 25 and 45 is 5

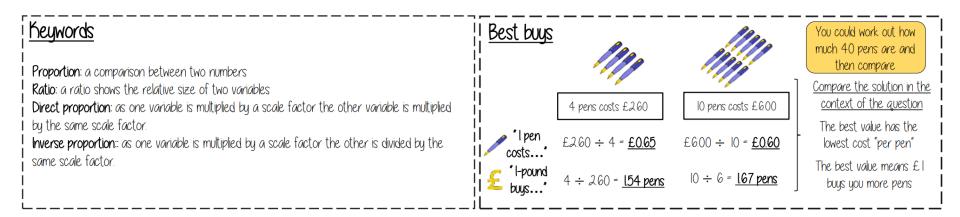








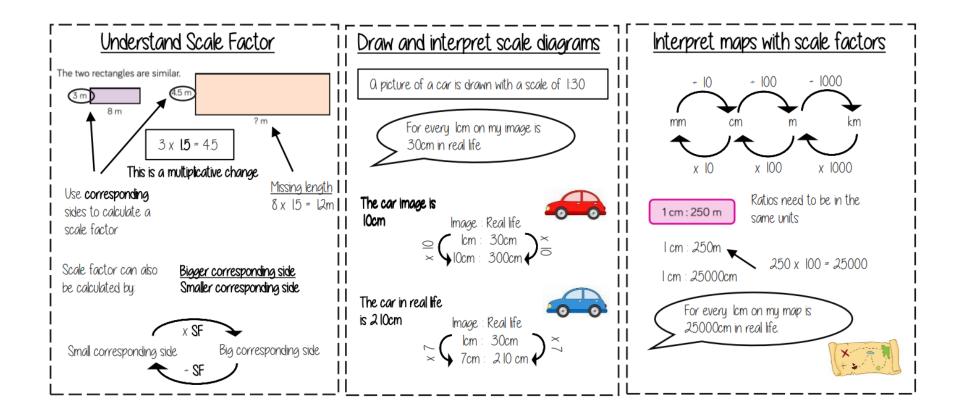
Direct & Inverse Proportion



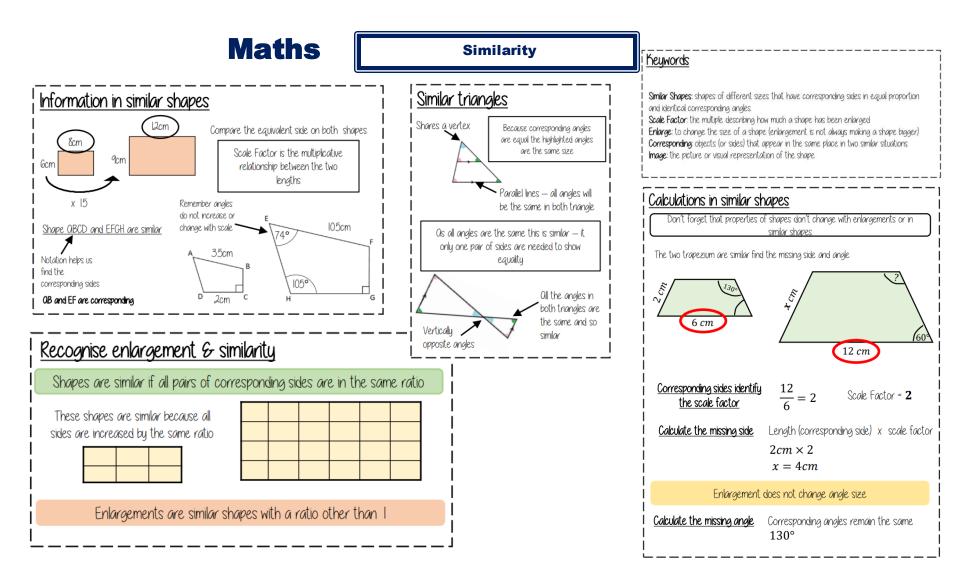




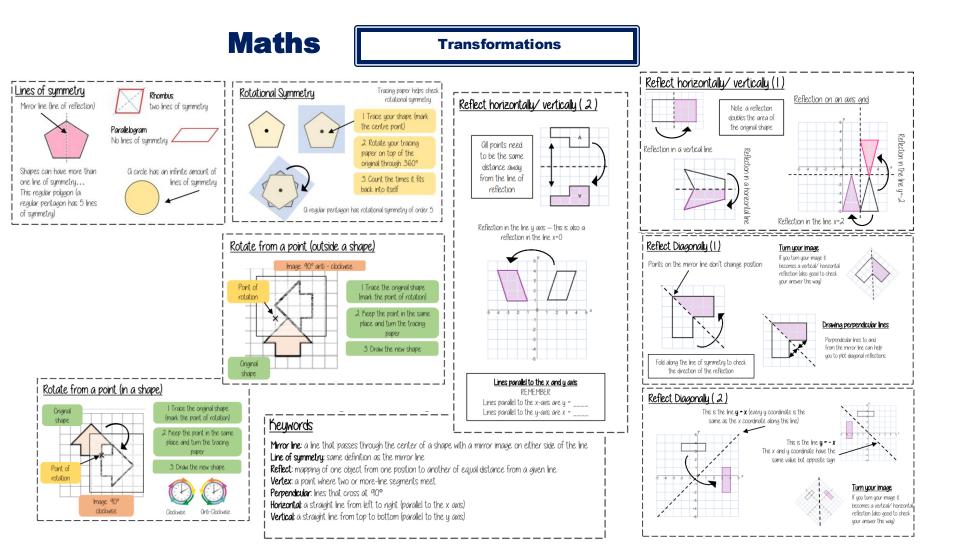
Scale Diagrams and Maps



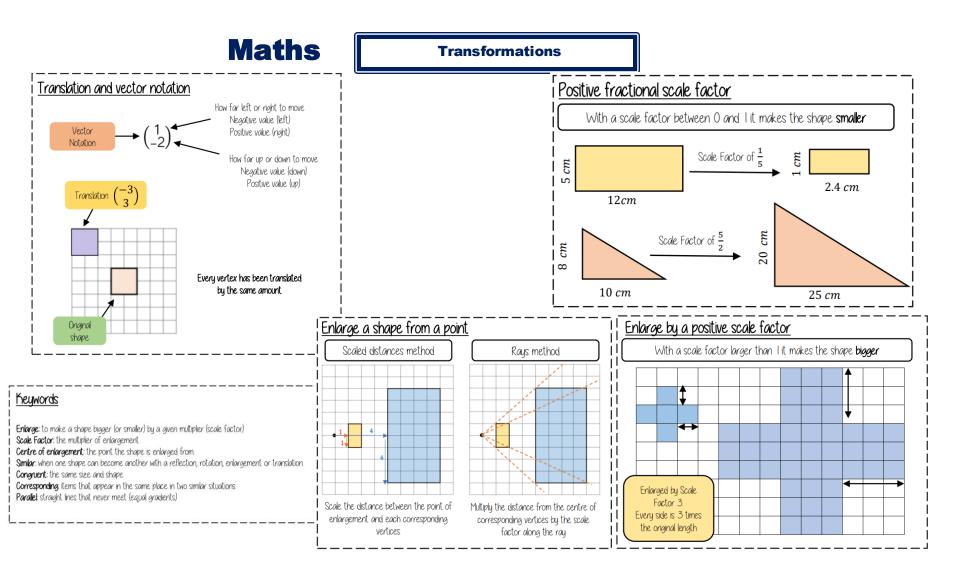




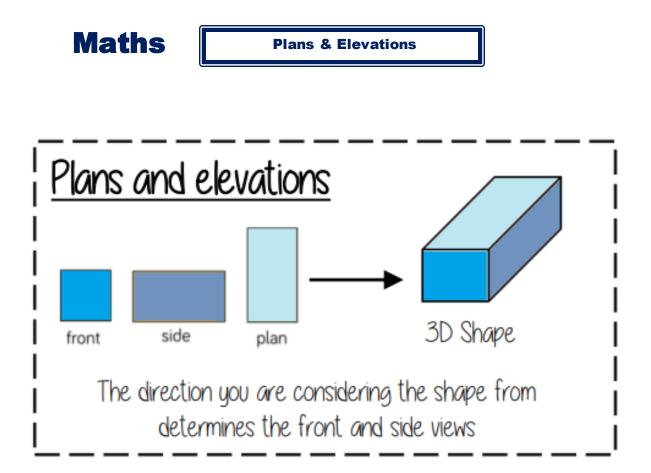






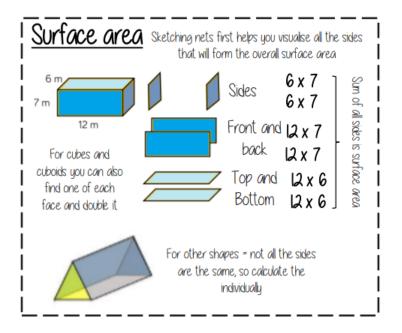


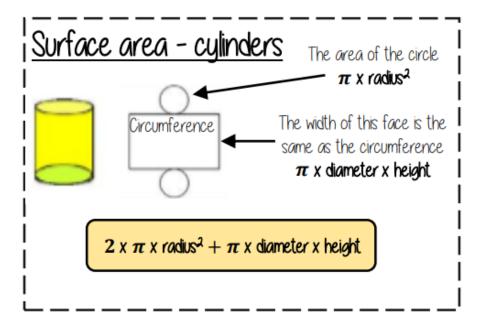






Surface Area







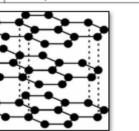
	C5-7: Bonding		Electrons are transferred from a		operties of ionic compounds	**Valency	The number of covalent bonds an
			metal atom to a non-metal atom	**Melting	High because melting needs a lot		atom can form.
L I	esson sequence		to form a positive metal cation	point of	of energy to break strong ionic	**Valency	Group 4 = 4 (4 electrons needed)
1. Ionic b	onding		and a negative metal anion. The	ionic	bonds.	and groups	Group 5 = 3 (3 electrons needed)
2. Ionic o	ompounds		oppositely charged ions are	compounds			Group 6 = 2 (2 electrons needed)
	rties of ionic compounds		attracted to each other.	*Solubility	Many ionic compounds dissolve in		Group 7 = 1 (1 electron needed)
	ent bonding		2. Ionic compounds	of ionic	water.	**Working	Find the lowest common multiple
	-	*Chemical	Shows the number of atoms of	compounds		out	of the valency of each atom. Use
	ent structures	formula	each element present in one		Solid: Do not conduct because ions	molecular	the number of an atom required t
	opes of carbon		'unit' of a compound.	of ionic	can't move. Liquid (molten or solution): Do	formulae	reach the LCM.
Metall	ic bonding	*Writing	- Each chemical symbol starts	compounds			(X)
8. Classif	ying materials	formulae	with a capital letter.	**How			(н(🕄)н)
	, ,		-The number of each atom		When they are in a liquid form, the		
	1. Ionic bonding		present is shown with a	ionic	positive cations move to the negative electrode (cathode) and		\bigcirc
*Bond	An attraction between two atoms		subscript number after the	compounds conduct			~**
	that holds them together.		symbol. E.g. H ₂ SO ₄ .		the negative anions move the		(H)
*lon	An atom that has gained a charge	**Determining	-Ensure the total number of	electricity	positive electrode (anode).		
	by gaining or losing electrons.	ionic formulae	positive and negative charges		4. Covalent bonding		~**
•Charge	Whether an ion is positive or		balance.	*Covalent	An electrostatic attraction between		· · · · · · · · · · · · · · · · · · ·
	negative.		- Change the number of each ion	bond	two atoms and a share pair of		(o(š)o)
 Cation 	Positive ion formed by losing		present by changing the		electrons.		▶ × <i>×</i>
	electrons. Formed by metal		subscript numbers.	++Double	A covalent bond involving two		
	atoms.	*Compound	An ion made from two or more	bond	shared pairs of electrons.		\sim
Anion	Negative ion formed by gaining	ions	atoms that share a charge.	*Dot and	A bonding diagram showing the		∽ €° ♪
	electrons. Formed by non-metal	*Common	Hydroxide: OH-	cross	electrons in the outer shell of each		(н 🖓 🥙 н)
	atoms.	compound	Nitrate: NO3	diagram	atom, with electrons drawn as dots		
**Size of	The number of electrons	ions	Sulfate: SO42-		or crosses.		
charge	transferred affects the size of		Sulfite: SO32-	 Hydrogen, 	Two overlapping circles both		
	charge: losing two electrons		Carbonate: CO ₃ 2-	H ₂	labelled H. One pair in the overlap.		(O())C())
	makes a 2+ charge, gaining three		Ammonium: NH4*	++Hydrogen	Two overlapping circles labelled H		
	electrons makes a 3- charge.	**Including	If you need more than one, put	chloride,	and Cl. One pair in the overlap, 6		
	Metals: however many electrons	compound	brackets around it. E.g. Mg(OH)2	HCI	electrons around Cl.		\frown
	are in the outer shell	ions in		++Oxygen,	Two overlapping circles both		(н)
gained or	Non-metals: however many	formulae		O2	labelled O. Two pairs in the		
lost?	electrons are needed to fill the	*Ionic lattice	The structure of ionic		overlap, 4 electrons around each		(насен)
	outer shell.		compounds: a repeating 3D		0.		
and a second			pattern of alternating positive	**Water,	Three overlapping circles in a line		(н)
	A force of attraction between a	tt Countral	and negative ions.	H ₂ O	labelled H, O, H. A pair in each		
force	positive and negative particle.	**Crystal	A piece of material with a		overlap, 4 electrons around O.		\bigcirc
*Ionic bond	When two oppositely charged		regular shape and straight edges	++Carbon	Three overlapping circles in a line		
	ions are held together by an		formed by the regular pattern of	dioxide,	labelled O, C, O. Two pairs in each		
	electrostatic force.		ions in an ionic lattice.	CO ₂	overlap, 4 electrons around each		

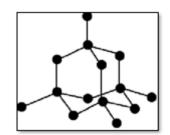
O. **Methane, Five circles with one in the centre CH₄ labelled C and 4 labelled H around it. A pair in each overlap.



5. Co	valent structures	[6.	Allotro
*Molecule	A particle made from two or		*Allotrope	A diffe
	more atoms bonded together.			eleme
*Simple	A structure made of small			atoms
molecular	molecules in which a few			differ
structure	atoms join together to form a		*Carbon's	Graph
	small particle.		allotropes	fullere
**Structure of	Atoms in a molecule are held		**Graphite	Struct
molecular	together by strong covalent			carbo
substances	bonds. Neighbouring			with o
	molecules are held close by			betwe
	weak intermolecular forces.			Prope
**Intermolecular	A weak electrostatic force			easily
force	that holds two neighbouring			Uses:
	molecules together.		**Diamond	Struct
**Melting point	Low because melting only			4 ator
of simple	needs a little energy to break			Prope
molecular	weak intermolecular forces.			Uses:
compounds			**Graphene	Struc
**Electrical	Do not conduct because there			atom:
conductivity of	are no electrons that are free			Prope
simple molecular	to move.			excell
compounds				Uses:
*Examples of	Hydrogen gas, oxygen gas,			many
simple molecular	water, carbon dioxide,		**Buckminster	Struc
substances	methane.		fullerene	moleo
 Giant molecular 	A structure made of a			Prope
structure	repeating pattern of atoms			Uses:
	covalently bonded together.		**Carbon	Struc
**Melting point	High because melting requires		nanotubes	carbo
of giant	breaking strong covalent			patte
molecular	bonds.			Prope
compounds				excell
**Electrical	Do not conduct (except			Uses:
conductivity of	graphite) because there are	[mater
simple molecular	no electrons free to move.			
compounds				-¢
Examples of	Silicon dioxide (silica),			•
	diamond, graphite.			~
substances				-
*Polymer	A large molecule made of a		-	-0
	small unit repeated many			
	times.			
*Monomer	A small molecule that can be			
	joined together many times to			-
	form a polymer.			

6.	Allotropes of carbon
pe	A different structural form of an
	element made of the same
	atoms just bonded together
	differently.
's	Graphite, diamond, graphene,
25	fullerenes
ite	Structure: stacked sheets of
	carbon in a honeycomb pattern
	with delocalised electrons
	between them.
	Properties: sheets slide apart
	easily, excellent conductor
	Uses: lubricants
ond	Structure: Repeating pattern of
	4 atoms bonded to 4 others.
	Properties: Extremely hard.
	Uses: Cutting tools and drills
ene	Structure: A single layer of
	atoms in a honeycomb pattern.
	Properties: Very strong,
	excellent conductor.
	Uses: None yet, but potentially
	many.
inster	
	molecules of C ₆₀ .
	Properties: Low melting point
	Uses: None
n	Structure: Cylinders made of
25	carbons bonded in a honeycomb
	pattern.
	Properties: Very strong,
	excellent conductors
	Uses: Strong and flexible
	materials, electronics.





	7. Metallic bonding				
*Structure of	A lattice of positive metal ions				
metals					
metals	surrounded by a cloud of delocalised electrons.				
**Delocalised	ed Electrons that are not bound to a				
electrons	single atom but move freely				
	around many.				
**Metallic	The electrostatic attraction				
bonding	between the lattice of positive				
	metal ions and the cloud of				
	delocalised electrons.				
**Electrical	Metals are good conductors				
conductivity	because the electrons are free to				
of metals	move.				
**Comparing	Metals with more electrons in				
the	the outer shell – such as Al – are				
conductivity	better conductors than those				
of metals	with fewer – such as Li – because				
	there are more delocalised				
	electrons that are able to move.				
Malleable	When a substance dents when it				
	is hit instead of shattering.				
**Malleability	Metals are malleable because				
of metals	the atoms are arranged in				
	regular sheets and these sheets				
	can easily slide over each other				
	when hit.				
**Melting	High because melting them				
point of	requires breaking the strong				
metals	force of attraction between the				
	lattice of metal ions and the				

cloud of delocalised electrons.

8. Bonding models				
**Classifying	The properties of a material can			
materials	be used to determine the type of			
	bonding in it.			
**Properties	High melting point, often soluble			
of ionic	in water, solid does not conduct			
compounds	nds electricity, liquid/solution does.			
**Properties	Low melting point, does not			
of simple	conduct electricity, sometimes			
molecular	soluble in water.			
compounds				
**Properties	High melting point, does not			
of giant	conduct electricity (except			
molecular	graphite), insoluble in water.			
compounds				
**Properties	High melting point, does conduct			
of metallic	electricity, insoluble in water.			
compounds				
**Bonding	The ideas and drawings that we			
models	use to explain the bonding of			
	atoms.			
**Problems	 Dot and cross diagrams make 			
with	electrons seem different, they are			
bonding	not			
models	-Atoms appear stationary but are			
	actually vibrating			
	-Atoms don't appear to be			
	touching when they actually are.			

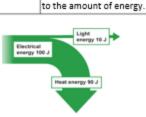


B4: Natura	selection and genetic	2.	The theory of evolution	Antibiotic	Antibiotics are used to kill bacteria.	Selective	Choose parents with the best
modification		Charles	Develop the theory of evolution.	resistance	Some bacteria were naturally	breeding in	
		Darwin			resistant, survived the antibiotics,	practice	together, choose from their
Lesson sequence		Evolution	The way that species develop by		bred and passed on their resistance		offspring with the best
1. Human e			gradual changes over many		genes.		characteristics, breed them
			generations due to natural		Antibiotic resistance means that		together, repeat for many
	y of evolution		selection.		many infections that used to be		generations.
Resistance	e	Variation	Natural differences between	of	simple to treat may become too	Genetic	Changing the characteristics of
Classificat	tion		members of a species that affect		resistant to treat, causing major	engineering	organisms by giving them gene
5. Modifying	z life		the chance of survival.		health problems.		from another organism.
	with modifying life	Mutations	Changes in DNA that cause		4. Classification	GMO	Genetically modified organism:
o. moorenia	and modelying inc		variation.	Carl	Developed the modern system of		organism that has had its genes
1.1	luman evolution	Environment	al Change to factors such as food	Linnaeus	classification.		changed.
Binomial	Two-part names, first part =	change	supply, climate or predators.	How to	Based on similarities, group things	Bt corn	Corn containing a gene from
naming	genus, second part = species,	Competition	The fight to eat, survive and	classify	into smaller and smaller groups		Bacillus thuringiensis that make
2	written in italics.		breed.	Classify	with fewer and fewer similarities.		produce a substance called Bt
Homo sapiens	Our species. Evolved about	Natural	Organisms with the best genes	Linnaeus'	Kingdom \rightarrow phylum \rightarrow class \rightarrow		which kills insects.
-	200,000 years ago. Skull	selection	and characteristics are more	classificatio		Medical	GM bacteria are used to make
	volume 1450 cm ^{3.}		likely to survive, breed and pass	system	species	GMOs	insulin (for diabetes) and some
Ardipithecus	Aka 'Ardi'. 4.4 million years		on their better genes.	Problems	Sometimes organisms that look		antibiotics.
ramidus	ago, walked upright and	Inheritance	Gaining your genes from your	with	similar are not actually related.	Pros and	Quicker than selective breeding
	climbed trees, 350 cm ³ skull		parents.	classificatio	1 1	cons of GM	
	volume.	Well adapted	An organism has features that	Carl Woese			characteristics, but is expensive
Australopithecus	Aka Lucy. 3.2 million years		make it better able to survive	canwoese	classification with three domains.	6.0	Problems with modifying life
afarensis	ago, walked upright, skull		and breed.	Domains	The three main groups of life:		Farmers focussing too much on
-	volume 400 cm ³ .	Evolution an	d An individual does not evolve	Domains	bacteria, Archae, Eukarya.		breeding for one characteristic (s
Homo habilis	2.4-1.4 million years ago,	the individua		Bacteria	Single-celled organisms with no		as chicken breast size), don't spo
	walked upright, skull volume		of organisms evolve over many	Dacteria	nucleus and no unused sections of		problems with other characterist
	5-600 cm ³ .		lifetimes.		DNA.		(such as weak leg bones) causing
Homo erectus	1.8 to 0.5 million years ago,	Human	Humans did not evolve from	Archae	Single-celled organisms with no		suffering.
	walked upright, skull volume	evolution	chimpanzees, we both evolved	ALC: NO	nucleus but with unused sections		The concern GMOs could breed
	850 cm ³ .		from a common ancestor.		of DNA.		wild relatives, enabling the mod
Fossil evidence	Many fossils have been found		3. Resistance	Eukarya	Often multi-cellular organisms		genes to escape into the wild. Th
	showing a gradual transition	Peristance T	he natural ability of some members	Landiya	with a nucleus and unused		could have ecological impacts.
	from 'ape-like' to 'human-		f a species to survive poisons that		sections of DNA. Includes plants,		The concern that in areas growin
	like'.		vould kill the other members.		animals, fungi and protists.		corn, insects simply evolve
Stone tool	Older stone tools are simpler		volution of organisms that stops		, ang, and products		resistance to Bt.
evidence	requiring less intelligence to		hem from being affected by		5. Modifying Life		Insulin made by GM bacteria is n
	make, younger stone tools are		oisons.	Artificial	When humans (normally farmers)		identical to human insulin, and s
	more complex requiring more	·	Varfarin is used to kill rats. Some	selection	select the animals/plants to breed		people suffer bad reactions to it.
	intelligence to make.		ats were naturally resistant.		with the best characteristics.		
The Leakeys	Mary and Louis discovered		urvived the warfarin, bred and	Selective	Developing new breeds of plants or		
	Homo habilis, their son		assed on their resistance genes.	breeding	animals with better characteristics		
	Richard worked on Homo		asses on their resistance genes.		by selective breeding over many		
	erectus.				generations.		



Lesson sequence 1. Storing and transferring energy 2. Energy efficiency 3. Insulation 4. Stored energy Non-renewable energy resources 5. 6. Renewable energy resources 1. Storing and transferring energy The capacity to do work. Energy Joules The units of energy, symbol = J. Kilojoules 1000 J, symbol = kJ. Thermal Energy stored on hot objects. energy *Kinetic energy Energy stored in moving objects. Energy stored in chemicals Chemical such as fuels. energy *Nuclear energy Aka atomic energy. Energy stored in the nucleus of atoms. **Gravitational Energy stored in objects based potential energy on how high they are. **Elastic Aka strain energy. Energy potential energy stored in bent or stretched objects. **Other forms Light, sound, electrical. of energy **First law of Energy cannot be created or thermodynamics destroyed, just transferred from one form to another. **Energy Say what form the energy

P3: Energy



starts as and what it becomes.

Shows energy transfers. The

thickness of the arrow relates

transfers

**Sankey

diagram

2. Energy efficiency					
**Dissipation	tion The way energy spreads out,				
	becoming less useful as it does.				
*Wasted	Energy that is transferred into				
energy	forms that can't be used.				
*Friction	Causes energy loss as heat when				
	two surfaces rub together.				
++Lubrication	llows surfaces to move smoothly,				
	reduces energy loss from friction.				
**Electrical	Causes wires to heat up, wasting				
resistance	electrical energy.				
*Calculating	Efficiency				
efficiency	useful energy transferred				
enciency	= total energy transferred				
**Energy	Efficiency is between 0 and 1.1 =				
efficiency	no energy wasted, 0 = all energy				
numbers	wasted.				
numbers	wasted.				
	3. Insulation				
*Convection	Heat transfer caused when hot				
	fluids (gas or liquid) rise because				
	ey are less dense.				
*Conduction	Conduction Heat transfer through solids				
	caused by vibrating particles				
	umping into each other.				
*Radiation	Heat transfer by infrared radiation				
Rediation	hich heats objects up when they				
	bsorb it.				
**Inculation	Materials that contain lots of tiny				
insulation					
	air pockets that prevent heat loss by conduction.				
++Thermal	by conduction. A measure of how well a material				
conductivity	conducts heat.				
**Draught-	Sealing gaps around doors and				
proofing	windows to prevent heat loss by				
	convection.				
	4. Stored energy				
*Calculating	1				
	$KE = \frac{1}{2}mv^2$				
kinetic energ	Where 'KE' is kinetic energy in J,				
	'm' is mass in kg, 'v' is velocity in				
	m/s.				
**Calculating					
from KE	$v = \sqrt{\frac{2KE}{m}}$				
TOM KE	v = v - m				

**Gravitation	al The strength of gravity. Different	**Tidal bar
field strength	on different planets. On earth:	
	10 N/kg.	
**Calculating	GPE = mgh	
gravitational	Where 'GPE' is gravitational	
potential	potential energy in J, 'm' is mass	
energy	in kg, 'g' is gravitational field	
	strength in N/kg, 'h' is height	**Hydroele
	change in m.	
5. Non	renewable energy resources	
*Fossil fuels	Coal, oil, natural gas. All are non-	
	renewable.	
*Non-	A resource that will one day run out	
renewable	because it is being used faster than	*Biofuels
resource	t is being made.	
**Harm	Carbon dioxide gas is released	
from	which causes global warming. Sulfur	
burning	dioxide is released which causes	
fossil fuels	acid rain.	
*Renewable	A resource will not run out.	**Carbon n
resource		
*Nuclear	Electricity generated from nuclear	
	fuels such as uranium.	
**Nuclear	😊 Lasts a long time, releases no	
	carbon dioxide	
and cons	Produces very harmful waste,	
	expensive to decommission,	
	although rare, accidents are very	
	dangerous.	
6.0	nourable energy reserves	
	newable energy resources	
*Wind power		
	wind.	
	No CO2	
	😕 Lots needed, ugly?, no	
	wind no power	
*Solar power	Solar cells turn sunlight to	
	electricity.	
	ON0 CO2	
	😕 No sun no power, need	
	lots of space, not suitable for	
	all countries	
**Tidal powe	r Uses water movement from	
	tides to spin turbines	

 Tidal barrage 	A damn built across an
	estuary that fills up when tide
	goes in.
	😌 Huge amounts of energy,
	no CO ₂
	🙁 Destroys important
	mudflat habitats
 Hydroelectricity 	A damn is built across a river
	valley, water released from
	the damn spins turbines.
	😌 Lots of energy, no CO2
	🙁 Destroys habitat by
	flooding
Biofuels	Fuels made from recently
	plant or animal matter, often
	waste.
	😌 Carbon neutral
	😣 Needs a lot of land,
	increases food prices
*Carbon neutral	When burning a fuel releases
	the same CO2 it absorbed
	when it was growing, so there
	is no CO ₂ increase.

The Holocaust - Key Events

1933 30 January	Hitler appointed Chancellor of Germany.
1933 1 April	Official national boycott of Jewish shops and bus inesses. Lasted one day but was poorly supported.
1935 September	Nuremburg Laws - Jews lost their citizenship and were no longer allowed to marry Germans.
1936 August	Berlin Olympics led to temporary suspension of the persecution of Jewish people in Germany.
1938 9-10 Nov	Kristallnacht - the 'night of broken glass', tho usands of Je wish b usiness and s hops were attacked a nd s yna gogues b urnt by Nazi Stormtroopers. 100 killed.
1939 September	Jewish ghettos built in a round 200 cities in Poland following German i nvasion of the East.
1941 Einsatzgruppen killing squads – following the June German invasion of the Soviet Union thousands of Jewish people were rounded up and murdered.	
1942 January	Wannsee Conference – leading Nazi officials meet to discuss the 'Final Solution' and formal agreement given to speed up the use of death camps.
1945 May	End of WWII in Europe and end of the Holocaust.

Why was the Holocaust possible?

There was a long history of antisemitism that the Nazis were able to build upon

The Nazi government used propaganda to indoctrinate citizens to justify mass murder

The Second World War provided the context and the opportunity for mass murder

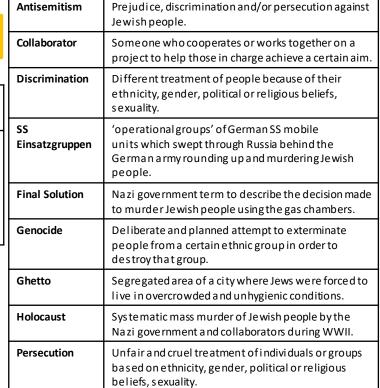
Mass murder of Jews was state driven - The Nazi government passed laws, used moneyand resources in order to achieve their priority

Complicity of others ordinary people carried out orders or were willing to take part

The Holocaust evolved over time - and allowed for more radical action to occur



	Antisemitism	
	and why was the caust possible?	Collaborator
	<u>Key Skills</u>	Discrimination
Interpretation	Analyse and evaluate different historian's views about the same topic.	
Source Analysis Use NOP	Nature: What is the type of source? Origin: Who wrote it? When? Where?	SS Einsatzgruppe
Content	Purpose: Why was the source made? Content: What does it tell	Final Solution
	us?	Genocide
	Key People	
th	Sinrich Himmler – Head of e SS which oversaw the	Ghetto
de de	a th camps. Key figure	



Key Terms

behind the Holocaust. Reinhard Heydrich - Chaired the infamous Wannsee

Conference which led to the Final Solution'.

Goldhagen argues that

most German soldiers

Holocaustwere 'willing

involved in the

executioners'.

Two key interpretations about the role of Germans in the Holocaust



Daniel Goldhagen



Christopher

Browning

Goldhagen's view and states that manyof the German soldiers were 'ordinary men' who did not necessarily agree to the killings nor want to be involved.

Browing challenges

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.



The Nuremburg Laws

The Reich Citizenship Law This law defined a citizen as a person who is "of German or related blood." This meant that Jews, defined as a separate race, could not be full citizens of Germany. They had no political rights.

The Law for the Protection of German Blood and German Honor

A law against racemixing or "race defilement. It banned future intermarriages and sexual relations between Jews and people "of German or related blood."



Kristallnacht

On November 9-10, 1938, Nazi leaders unleashed a series of vandalism and destruction of Jewish-owned businesses, synagogues, and homes.

- Nazi officials disguised the They blamed the outrage of the German population to the assassination of a German diplomatic official, Ernst vom Rath, in Paris. During the pogrom, some 30,000 Jewish males were rounded up and taken to concentration camps. This was the first time Nazi
 - arrests of Jews because they were Jewish, without any other reason.
 - regime ordered the Jewish community to pay a 1 billion Reichsmark fine and further measures against them.

How and why was the Holocaust possible?



Resistance Jewish people were not all passive victims of the holocaust. Despite the huge difficulties they found many ways to resist from armed resistance to maintaining their culture and traditions.



TheEinsatzgruppen

Units of the Security Police and SD (the SS intelligence service) followed the German army as it invaded and occupied countries in Europe. Referred to as "mobile killing squads."

army and local

Einsatzgruppen

conducted mass

shootings in the

Soviet Union.

Targeted Jews,

Roma (Gypsies),

Communists, and

Soviet civilians.

3

1/3 of all

Jewish

Holocaust

victims died as

a result of this.

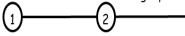
The

Einsatzgruppen

were key

perpetrators of

mass shootings.



Special Waffen SS worked units of the with police units, the

Security Police and collaborators, the SD assigned to security measures immediately behind German lines.

Mass shootings required many shooters, guns, ammunition, and transport. Shootings were seen as inefficient and the phycological impact led to development of special vans that killed people with carbon monoxide gas. It took time to kill victims with gas vans and Einsatzgruppen needed to remove bodies and clean the compartments. Mass shootings continued to be the preferred method of murder.



Death camps

Death camps were different to the concentration camps previously established by the nazis. These were designed with the purpose of killing as many people as possible.

The most famous death camp is Auschwitz but there were many others throughout Nazi occupied Europe and they were all different.

On arrival people would be sorted into those who were fit for work and those who were not. Those who were not were sent to the gas chambers immediately where they died. Those who lived suffered horrendous conditions and violence on a daily basis.

- organized nature of events. officials made massive
- Afterwards, the Nazi

Ghettos

There were around 460,000 inhabitants of the Warsaw Ghetto. 'n'n'n

Jews were allowed to bring only the absolute minimum - personal belongings and bedclothes. That meant instant poverty.

Only a very small percentage of the ghetto population had any kind of regular employment Street trading became a necessity.

Food supplies were limited which **NU** caused starvation. Malnutrition, overpopulation and lack of medical care brought disease e.g. typhus.

Many Jewish residents died of starvation, diseases and cold, nearly 20% of the population. These dreadful conditions forced many to escape.

Jews who leave without permission ~ are liable to the death penalty. The same penalty awaits those who give shelter to Jews.



Key individuals/groups			BROADOAK ACADEMY History-Year9		<u>Key Terms</u>		
1968 - British Black Panthers BBP	1970 - Gay Liberation Front GLF	c.1960's – Women's Liberation	1960s: A decade of revolution?	Boycott	Refusal to have dealings with (a person, a store, an organization, etc.) usually to express disapproval or to force acceptance of certain conditions		
OVER THE SEPTEMENT		WENENS A		Civil Rights	Set of rights that are designed to protect individuals from unfair treatment; they are the rights of individuals to receive equal treatment.		
A Dear In	ELE		Public Attitudes	Colony	A country or a rea under the full or partial political control of another country and occupied by settlers from that country.		
1978 - Organisation of Women of Asian and African Descent	Darcus Howe BBP	Roy Hackett Bristol Bus Boycott	Government/Law	Colour bar	A social system in which black and other non-white people are given access to the same rights and opportunities as white people		
OWAAD			Factors that effect change	Discrimination	Different treatment of people because of their ethnicity, gender, political or religious beliefs, sexuality.		
				Equality	The state of being equal, especially in status, rights, or opportunities.		
Carl Mark				Legalisation	To make something that was previously illegal allowed by law.		
Paul Stephenson Bristol Bus Boycott	Aubrey Walter GLF	Stella Dadzie OWAAD	Key Individuals/Groups	Liberation	To set someone or something free. For example from oppression.		
AL AND		2	Media	Migrants	Person who moves from one place to another, especially in order to find work or better living conditions.		
				Revolution	A fundamental and sudden change that results in significant transformation in a government, system or set of ideas.		

<u>1960s: A decade of revolution -</u>						1968: Race		1968: Dage	nham Ford		
1961: Contraceptive pill a vailable to married women on the NHS for the first time.	0	he colour bar on the Bristol	<u>Key Events</u>		1967: Abortion Act legalised abortion if the mother was at risk or the child would have serious disabilities.		Relations Act made it illegal to refuse housing, jobs or public services on the basis of race.		Strike at the Company fa female sew	e Ford Motor actory where /ing machinists for equal pay.	5
1960 1961	1962	1963	1964 1	965	1966	1967	1968		1969	1970	
1962: Cuban Missile Crisis USA and Russiaon the brink of nuclear warfare over the discovery of nuclear warheads in Cuba.		ב d p c	/ 965: Race Relations Act banned racial liscrimination in public ol a ces and made it a riminal offence to promote racial hatred.		1967: Sexual Offences Act decriminalised private homosexual offences between men over 21.		1967: Family Planning Act enabled local heal authorities to provide contraceptives for all women	th	1968: St. Pau organised in the first time West Indian Developmer	Bristol for e by the	



Why should we care about the ocean?

	ORLD OCEAN	
P	provides	
THE AIR WE BREATHE	CLIMAT	E REGULATION
9 >50% The ocean produces over half of the	70% Cov	ering 70% of Earth's surface,
world's oxygen and stores 50 times more carbon dioxide than our	the ocean trans from the equato	ports heat or to the poles, 79
atmosphere.	regulating our o weather pattern	
TRANSPORTATION	RECREATION	ECONOMY
76% Percent of all U.S. trade Involving some form of	From fishing to boating to kayaking and whale watching,	\$282 Amount the U.S. billion produces in
marine transportation.	the ocean provides us with so many unique	goods and services. Ocean- dependent businesses employ
\$*	tivities.	almost 3 million people.
FOOD	-	MEDICINE
The ocean provides much more than just seafood.		Many medicinal products come from the ocean,
Ingredients from the sea are found in surprising foods		including ingredients that help fight cancer, arthritis,
such as peanut butter and soymlik.	BARNA CONT	Alzheimer's disease, and heart disease.
	MARINE TOURIS	M
LIVELIHOODS	Tourism is the world's largest	The marine tourism industry provides 200 million jobs
	350 industry	provides 200 million jobs worktwide
derive livelihoods from millio fishing live in are links	on jobs ad to the	COASTAL PROTECTION
developing countries		Wetlands, seagrass
F000	BENEFITS OF	beds, mangroves and coral reefs are a
1 Billion people depend	HEALTHY	natural defense to protect coastlines
on fish for their primary source of	OCEANS	
protein	GLOBALLY	HOL HOL
CLIMATE		6
5X more carbon is stored by coas		
ුලුම්ල, ම	Bealthy oceans	
+NNNN +	be able to cope negative impac	
AND THE		

N. Pacific Drift California N. Equatorial S. Equatorial Strafa South Pacific A Mick 17
iberdrold
stagety store in the work have represented that matinum exclusions
A second
Atlantic Overfishing: Europe's Worst Offenders Share of total allowable catch (TAC) in excess of scientific advice in the northeast Adantic (2019)' Member State Sweet TAC (N) Sweet T

Member Stat		Excess TAC (%)	Excess TAC (tonne
Sweder		****	17,369
United Kingdom	-	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	106,925
Ireland		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	34,052
Denmark	-	19.7	49,914
Germany	-	>>>>>>	20,620
The Netherlands	=	>>>>>> 13.5	31,910
Belgium		>>>>) 10.4	3,009
France		×	27,230
Spain	-	M 4.6	16,689
Portuga		> 1 3.8	3,662
BO Berry	recom year, f	ordes provide information on the state of fish stocks meeded catch levels for sustainability, inheries ministers agree on a total allowable catch for commercial fish stocks. "commits Foundation	statista 2

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



Year 9 Term 5: How can we be sustainable citizens?

Keyword	Definition
Sustainability	When materials and resources are used in a way that will balance the needs of the present without compromising the future
Sustainable development goals	Economic sustainability 17 interlinked global goals designed to be a "blueprint to achieve a better and more sustainable future for all"
Economic sustainability	Practices that support long-term economic growth without negatively impacting social, environmental, and cultural aspects of the community
Social sustainability	A measure of welfare where people can flourish and have the best lifestyle for
Environmental () sustainability	The practice of interacting with the planet responsibly
Grey water recycling	Uses existing plumbing in your home to recycle old water for new uses
Circular economy	A system which maximises the value of resources by recycling and repurposing them as much as possible
Linear economy $\xrightarrow{\rightarrow}$	A system where waste as a side result of the production, process, is discarded into the environment
Incineration 🚔	The burning of waste
Food Miles	How far your food has travelled
Carbon Footprint	The amount of carbon dioxide released into the atmosphere by a person or organisation
Fast Fashion	Cheap and speedy production of low-quality clothing
Ethical fashion	Where the garment design, production and distribution of clothing focuses on reducing harm to people and the planet

people and the planet.

NUMBER SUSSAINABLE CONSULTATIONABLE CONSULTATIONALISTICS NUMBER SUSSAINABLE CONSULTATIONALISTICS </tabult</tabult</tabule>

16 PEACE JUSTIC

17 PARTNERSHIPS

Case study: Masdar city

14 BELOW WALER

Masdar is a city that was designed and built to be sustainable.

It included:

CLIMATS ACTION

Using grey water for plants and water features

15 HELNE

- The PRT system (electric shuttle buses)
- UV paint and buildings facing north to reduce need for air conditioning
- However, Masdar has been nicknamed a 'ghost town' due to lack of residents.



Religion and World Views

Keyword	Definition	
Activism	The practice of taking direct action to achieve political or social goals	
Belief	An acceptance that something exists or is true, especially one without proof	
Conviction	A formal declaration by the verdict of a jury or the decision of a judge in a court of law that someone is guilty of a criminal offence	
Equality	The state of being equal, especially in status, rights, or opportunities	
Freedom	The power or right to act, speak, or think as one wants	
Racism	When a person is treated worse, excluded, disadvantaged, harassed, bullied, humiliated or degraded because of their race or ethnicity	
Civil Disobedience	The refusal to comply with certain laws considered unjust, as a peaceful form of political protest	
Prejudice	A preconceived opinion that is not based on reason or actual experience	
Social Justice	Justice is the concept of fairness. Social justice is fairness as it manifests in society. That includes fairness in healthcare, employment, housing, and more.	

How do beliefs inspire change?

Malala Yousafzai (born July 12, 1997) is a Pakistani student and education activist. She is known for her activism for girls' and women's rights, especially for their right to go to school.

On 9 October 2012, Yousafzai was shot in the head and neck in an assassination attempt by a Taliban gunman. She was on her school bus at the time of the shooting.



Martin Luther King (born January 15th, 1929) was the leader of the Civil Rights Movement in the USA in the 1960s.

In 1963, Martin gave his famous "I Have a Dream" speech. Over 250,000 people gathered in the country's capital to hear Martin and other activists speak about the importance of civil rights. It has become one of the most famous speeches in history and focuses on Martin's dream of a society where black people and white people live together in harmony.

Harriet Tubman (born in 1820) was an born into slavery in the USA. After escaping enslavement, she helped others gain their freedom as a "conductor" of the Underground Railroad. Tubman also served as a scout, spy, guerrilla soldier, and nurse for the Union Army during the Civil War. She is considered the first African American woman to serve in the military.





Marsha P. Johnson (born August 24th 1945) was one of the most prominent figures of the gay rights movement of the 1960s and 1970s in New York City. Johnson was an important advocate for homeless LGBTQ+ youth, those effected by H.I.V. and AIDS, and gay and transgender rights. Johnson's life changed when she found herself engaging with the resistance at The Stonewall Inn on June 28, 1969.



_		
	<u>¿Cuál es tu asignatura</u>	What is your favourite
	<u>favorita?</u>	subject?
N 12 71 K	El inglés	English
مق	El español	Spanish
	El francés	French
89	El teatro	Drama
H	El dibujo	Art
30	El deporte	P.E.
	La informática	I.C.T. (Computer Studies)
ħ	La música	Music
72	La tecnología	D.T.
G	La geografía	Geography
ě	La historía	History
۳. چ	La religion	R.S. (Religious Studies)
ß	La educación personal y	P.S.H.E (Health and Wellbeing)
85	social	
- * • =	Las matemáticas	Maths
<u>z</u>	Las ciencias	Science

¿Cuáles son las reglas?	What are the rules?
Se debe / no se debe	You must / You must not
Se puede / no se puede	You can / You can not
Hay que	You must
Está prohibido	It is forbidden to
Escuchar en clase	(to) listen in class
Usar el móvil en clase	(to) use your phone in class
Llevar joyas	(to) wear jewellery
Llevar maquillaje	(to) wear make-up
Llevar zapatillas de	(to) wear trainers
deporte	
Dañar las instalaciones	(to) damage the facilities
Ser punctual	(to) be on time
Comer chicle	(to) chew chewing-gum
Hacer los deberes	(to) do homework

¿Cuál es tu opinión?	What is your opinión?	¿Qué llevas?	What do you wear?
Es / no es	lt is/lt is not	LLevo	I wear
interesante	Interesting	Se debe llevar	You must wear
Práctico	Practical	🕅 Una chaqueta	A blazer/jacket
Útil / Ínutil	Useful/not useful	Un jersey	Ajumper
Fácil / Difícil	Easy/difficult	Una camisa	Ashirt
Aburrido	Boring	T Una camiseta	A t-shirt
Emocionante	Exciting	📓 Una corbata	Atie
Creativo	Creative	🖾 Una falda	Askirt
Importante	Important	🖉 Unos calcetines	Socks
demasiado	Тоо	Unos pantalones	Trousers
muy	Very	www.unos zapatos	Shoes
bastante	Quite	Unas medias	Tights
Un poco	A bit (a little)	Un hiyab	Hijab
		feo	Ugly

the

¿Qué quieres hacer en el futuro?	What do you want to do in future?
Voy a	l am going
Me gustaría / Quiero	I would like / I want
Aprobar mis exámenes	To pass my exams
Sacar buenas notas	To get good results
Hacer un aprendizaje	To do an apprenticeship
Buscar trabajo	To search for a job
Trabajar como voluntario	To do voluntary work
Viajar por el mundo	To travel the world
Tener hijos	To have children
Casarme	To marry
Aprender a conducir	To learn to drive
Médico/a Veterinario	A doctor/a vet
Profesor(a) Abogado/a	A teacher/a lawyer
Mecánico Fontanero	A mechanic/a plumber
Bombero	A firefighter
Peluquero	A hairdresser

Se debe llevar	You must wear
Una chaqueta	A blazer/jacket
Un jersey	Ajumper
Una camisa	Ashirt
Una camiseta	A t-shirt
Una corbata	Atie
🛽 Una falda	Askirt
Unos calcetines	Socks
Unos pantalones	Trousers
Unos zapatos	Shoes
Unas medias	Tights
Un hiyab	Hijab
feo	Ugly
bonito	Beautiful
(In)cómodo	(un)comfortable
caro	Expensive
barato	cheap
De moda	Fashionable
Pasado de moda	Old-fashioned

La jornada escolar	The school day
Salgo de casa	I leave the house
Voy al insti	l go to school
Las clases empiezan.	Lessons start
Las clases terminan	Lessons end
Dura	It lasts
El recreo	Breaktime
La hora de comer	Lunchtime
Por la mañana	The morning
Por la tarde	The afternoon



9.3 My school – Spanish Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs

The future tense in	Spanish
---------------------	----------------

You can talk about the future by using the near future tense. Use part of the verb IR + a + the infinitive to say what you are going to do.

Este tarde **voy a jugar** al tenis. *This evening I am going to play tennis.* Mañana Paul **va a hacer** un pastel. *Tomorrow Paul is going to make a cake.*

You can also use the following phrases with an infinitive to refer to the future. *Quiero = I want*

Me gustaría = I would like Quisiera = I would like Espero = I hope

The present tense	AR verb	ER verb	IR verb
yo (I)	-0	-0	-0
tu (you)	-as	-es	-es
él/ella (he/she)	-a	-е	-е
nosotros/as (we)	-amos	-emos	-imos
vosotros/as (you all)	-áis	-éis	- ís
ellos/ellas (they)	-an	-en	-en

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

In Spanish, adjectives normally go after the words they are describing e.g. una camisa azul (a blue shirt) and they have to 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. una chaqueta negra (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g. las medias negras (black tights).

Comparatives – to express more or less than

... es más...adjective...que - is more...adjective...than

... es menos ...adjectiveque - is less ... adjective ... than

... es tan...adjective....as – is as...adjective...as

For example:

El inglés es más interesante que la geografía. (English is more interesting than Geography)

La historia es menos activa que la educación física. (History is less active than PE)

El francés es tan difíil como las matemáticas. (French is as difficult as maths).



	¿Cuál es tu festival favorito?	What is your favourite festival
	Mi festival favorito es	My favourite festival is
	La Navidad	Christmas
2	La Nochebuena	Christmas Eve
CAN CO	La Nochevieja	New Year's Eve
JAN 1	El día de año nuevo	New Year's Day
	El día de los Reyes Magos	Three Wise Men Day
÷	La Semana Santa	Easter / Holy Week
	Las hogueras	The bonfires
9E	La feria de abril	The April fair
	Día de muertos	The day of deaths
-	El cumpleaños	Birthday
205	El carnaval	Carnival
	La feria	Fair
	El día de la madre	Mother's day
*	El día del padre	Father's day
	El día festivo	Bank Holiday
	El encierro	The bull running
	Las fallas	Fallas
	Els castells	Human towers
ò	La Tomatina	Tomato festival

¿Qué hacemos para celebrar?	What do we do to celebrate?
Me levanto	lgetup
Me ducho	Ishower
Me visto	l get dressed
Recibo regalos	I receive presents
Soplo velas	I blow candles
Monto el árbol de Navidad	I put up the Christmas tree
Compro ropa nueva	I buynew clothes
Voy a la iglesia	l go to church
Voy a la mezquita	l go to the mosque
Voy a la plaza	l go to the square
Voy a casa de	l go to's house
llega	arrives
Comemos	We eat
Ayunamos	We fast
Jugamos a juegos de mesa	We play table games
Celebramos	We celebrate
Lo paso muy bien	I have a good time
Me acuesto	I go to bed
Voy a dormir	l go to sleep

¿Cómo es?	How is it like?
Emocionante	Exciting
Conmovedor	Moving
Divertido	Fun
Insoportable	Unbearable
Impactante	Striking

¿Qué pasa en los encierros /	What happens in the bull		
las corridas de toros ?	running / bull fighting?		
San Fermín	A bull running festival held		
	in Pamplona every July		
Los toros	The bulls		
Las calles	The streets		
Correr	To run 🕊 🍂		
Las corridas de toros	Bullfighting		
Los encierros	Bullrunning 🖇 🏹 🔊		
La plaza de toros	The bullring		

¿Qué pasa en las Fallas?	What happens in Fallas?	
Fallas	A festival held in Valencia	
	e ve ry March	
La hoguera	The bonfire	
El cartón	Cardboard	
Las fallas	Sculptures made of cardboard	
Los fuegos artificiales	Fireworks	
Los petardos	Firecrackers	
Las bandas de música	Music bands	
	1000	

¿Qué pasa e	n la Tomatina?	What happens in the tomato festival?
Lagente		People
Lanza tomat	es	Throw tomatoes
Aplasta tom	ates	Squish tomatoes
Se ensucia		Gets dirty
Tiene lugar e	en Buñol	Takes place in Buñol
La batalla		The battle
El caos	No will have	Chaos





		Buenas ta
		Buenas no
La geografía	Geography	¿Cómo te
El país	The country	Me llamo
La región / la comunidad	The region	iAdiós!
La ciudad	The city	Hasta lue
El pueblo	The town/ village	Por favor
La costa	The coast	Gracias
Las islas	The islands	
El interior	The inland regions	Muchas g
		De nada
La historia	History	Perdone /
Castellano / Español	Spanish language	Lo siento
La Reconquista	Period of time when the	ظHabla ing
	Christian kingdoms	Hablo un
	"reconquered" the península	No entien
	from the Muslims (Moors).	¿Dónde ha
Moros	Moors – Muslim inhabitants of	restaurant
Conquistadores	modern-day Spain in Conquerors of American	¿Dónde es
conquistadores	territories in the 16th century	playa?
La Colonización	Colonisation of the Americas	Me he per
La Guerra Civil Española	The Spanish Civil war between	Busco un
	1936 and 1939	/ un banco
La Dictadura fascista	The fascist dictatorship in	Busco la e
	Spain between 1939 and 1975	aeropuert bus
La Transición	Transition into democracy	¿Me podrí
	after the dictatorship	iCuidado!
La monarquía parlamentaria	The current political system in	[Culuad0]

Spain: a parliamentary monarchy, like in the UK

El lenguaje de todos los días	Everydaylanguage
iHola!	Hello
Buenos días	Good morning
Buenas tardes	Good afternoon
Buenas noches	Good night
¿Cómo te llamas?	What's your name?
Me llamo	My name is
¡Adiós!	Goodbye
Hasta luego / hasta la vista	See you later
Por favor	Please
Gracias	Thank you
Muchas gracias	Thanks a lot
De nada	You are welcome
Perdone / Perdón	Excuse me / Apologies
Lo siento	l'm sorry
¿Habla inglés?	Do you speak English?
Hablo un poco de español	I speak a bit of Spanish
No entiendo	I do not understand
¿Dónde hay un buen	Where is a good
restaurante?	restaurant?
¿Dónde está el centro / la	Where is the centre / the
playa? Me he perdido	beach? Lam lost
Busco un hotel / un hospital	I am looking for a hotel /
/ un banco	hospital / bank
Busco la estación / el	I am looking for the station
aeropuerto / la parada de bus	/airport/busstop
¿Me podría sacar una foto?	Could you take a picture?
¡Cuidado!	Be careful!
¡Vamos!	Let's go!



9.4 Festivals, Geography and History– Spanish Knowledge Organiser

3 Time frames

The preterite tense of regular verbs	is formed on an infinitive	stem with the following endings:

Infinitive:	habl <mark>ar</mark>	comer	vivir
Stem:	habl-	com-	viv-
Yo (I)	hablé	comí	viví
Τύ (you)	hablaste	comiste	viviste
él/ella/usted (he/she/you)	habló	comió	vivió
Nosotros (We)	hablamos	comi mos	vivimos
Vosotros (You all)	hablasteis	comisteis	vivisteis
ellos/ustedes (They/ you all)	hablaron	comieron	vivieron

Ser / Ir (To be /to go)

fui (I was / I went) Fuiste (You were / You went) Fue (he/she was // he /she went) Fuimos (we were / we went) Fuisteis (you all were / you all went) Fueron (they were / they went)

The future tense of **regular verbs** is formed adding the endings **e**,**as**,**a emos**, **eis**, **an** to the infinitive.

FUTURE SIMPLE				
Person Verbs				
8	Hablar Comer Vivir			
Yo	hablar - é	comer - é	vivir - é	
Tú	hablar - <mark>áS</mark> comer - <mark>áS</mark> vivir - áS			
Usted, él, ella	hablar - á comer - á vivir - á			
Nosotros-as	hablar - <mark>emos</mark>	comer - emos	vivir - emos	
Vosotros-as	hablar - éis	comer - éis	vivir - éis	
Ustedes, ellos, ellas	hablar - án comer - án vivir - án			

Regular verbs – present tense endings					
	AR verbs ER verbs IR verbs				
1	0	0	0		
you	as	as es es			
he/she/it	а	a e e			
we	e amos emos imos				
you(pl)	áis éis ís				
they	an	en	en		





		Qu'est-ce que tu en penses?	What do you think of it?	Comment est ton	What is your school
		C'est/Ce n'est pas	It is/It is not		uniform like?
		Intéressant (e)	Interesting		Iwear
Quelle est ta matière	What is your favourite	Pratique	Practical	Il faut porter	You must wear
préférée?	subject?	Utile/inutile	Useful/not useful		A blazer/jacket
L'anglais	English	Facile/Difficile	Easy/difficult		Ajumper
L'espagnol	Spanish	Ennuyeux (se) /barbant (e)	Boring		Ashirt
Le français / les langues	French / languages	Passionnant (e)	Exciting		A t-shirt
y Le théâtre	Drama	Créatif (ve)	Creative		Atie
Le dessin	Art	Important (e)	Important	Ø	Askirt
Le sport (L'EPS)	P.E.	Тгор	Тоо		Socks
L'informatique	I.C.T. (Computer Studies)	Très	Very	78	Trousers
La musique	Music	Assez	Quite		Shoes
La technologie	D.T.	Un peu	A bit (a little)	1 Un collant	Tights
La géographie	Geography	du tout	At all		Hijab
L'histoire	History			Moche	Ugly
La religion	R.S. (Religious Studies)	Qu'est-ce que tu voudrais faire	What would you like to do in the	Beau/belle	Beautiful
L'éducation civique	P.S.H.E (Health and Wellbeing) Maths	dans le futur?	, future?	(In)confortable	(un)comfortable
Les mathématiques		Je vais	lamgoing	Cher	Expensive
Les sciences	Science	Je voudrais/J'aimerais	I would like	Pas cher/bon marché	Not expensive/cheap
Quelles sont les règles?	What are the rules?	Réussir mes examens	To pass my exams		Fashionable
On doit / On ne doit pas	You must / You must not	Recevoir des bonnes notes	To get good results	Démodé(e)	Old-fashioned
On peut / On ne peut pas	You can / You can not	Faire un apprentissage	To do an apprenticeship		
Il faut	You must	Chercher du travail	To search for a job	La journée scolaire	The school day
ll est interdit de/d'	It is forbidden to	Faire du bénévolat	To do voluntary work	Je quitte la maison	I leave the house
Écouter en classe	(to) listen in class	Voyager autour du monde	To travel the world	Je vais au collège	l go to school
	(to) use your phone in class	Avoir des enfants	To have children	Les cours commencent à	Lessons start at
Utiliser son portable en classe		me marier	To marry	Les cours terminent à	Lessons end at
	(to) wear jewellery	Apprendre à conduire	To learn to drive	Ça dure	It lasts
Porter des bijoux	(to) wear make-up	Devenir	To become	La récréation	Breaktime
Porter du maquillage	(to) wear trainers	Médecin/Veterinaire	A doctor/a vet	L'heure du déjeuner	Lunchtime
Porter des baskets	· · /	Professeur/Avocat(e)	A teacher/a lawyer	Le matin	The morning
Manquer les cours	(to) miss lessons	Mécanicien(ne)/Plombier(ière)	A mechanic/a plumber	L'après-midi	The afternoon
Être à l'heure	(to) be on time	Pompier (ière)	A firefighter	Le soir	The evening
Mâcher du chewing-gum	(to) chew chewing-gum	Coiffeur(euse)	A hairdresser	Un élève	Apupil
Faire ses devoirs	(to) do homework				

BROADOAK ACADEMY	Languages
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9.3 My school – French Knowledge Organiser 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).

Comparatives – 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).

Cabot Learning

BROADCANK Languages
9.4 Culture, History and Geography-French Vocab List

Cabot Learning Year 9 Te	erm 6 – Culture, History an	d Geography		La langue de tous les jours Bonjour!	Everyday language Good morning, hello
Federation		Les directions	Directions	Bienvenue.	Welcome
Les pays francophones	French Speaking Countries	nord	north	Pardon, excusez-moi.	Pardon, excuse me.
La France	France	nord-est	northeast	Parlez-vous anglais?	Do you speak English?
Le Cameroun	Cameroon	est	east	Je ne parle pas français.	I do not speak French.
Le Sénégal	Senegal	sud-est	southeast	À tout à l'heure!	See you later!
La Corse	Corsica	sud	south	Merci/Merci beaucoup.	Thank you/Thank you very much.
La Guadeloupe	Guadeloupe	sud-ouest	southwest	Au revoir!	Goodbye!
La Suisse	Switzerland	ouest	west	De rien.	You're welcome.
La Belgique	Belgium	nord-ouest	northwest	Je ne comprends pas.	I do not understand.
L'Algérie	Algeria			Où est un bon restaurant/un	Where is a good restaurant/a good
La Tunisie	Tunisia	La géographie	Geography	bon café?	café?
La Guinée	Guinea	Je suis francophone	I speak French	Où est la plage/le centre-ville?	Where is the beach/city center?
La Guyane	French Guiana	Une langue maternelle	Mother tongue	Je cherche le métro/le	I am searching for the metro/train
La Côte d'Ivoire	Ivory Coast	L'Hexagone	France (slang)	gare/l'aéroport.	station/airport
La Polynésie Française	French Polynesia	Les DOM TOM	French overseas territories	Je cherche l'hôtel/l'hôpital/la	I am searching for the
Le Bénin	Benin	L'outre-mer	Overseas	banque.	hotel/hospital/bank.
Le Burkina Faso	Burkina Faso	Le métropole	Mainland France	Pourriez-vous prendre ma	Can you take my/our photo?
Le Burundi	Burundi	Un territoire	Area	photo/notre photo?	
Le Canada	Canada	Un département	Department	Il n'y a pas de quoi	It's nothing/don't mention it
Le Tchad	Chad	Une région	Region	Vas-y, Allez-y	Go on, go ahead
Le Congo	Congo	L'histoire	History	Bonne soirée!	Good evening!
Le Djibouti	Djibouti		The French Revolution	À demain!	See you tomorrow!
Le Haïti	Haiti	La révolution française La colonisation	Colonisation	Je suis desolé(e)	I'm sorry
Le Luxembourg	Luxembourg	La civilisation	Civilisation	Tu t'appelles comment?	What's your name?
Le Madagascar	Madagascar	Le conflit	Conflict	Je suis perdu	I'm lost
La République du Mali	Mali	La culture	Culture	Attention! Fais/faites attention!	Careful! Be Carefull!
Le Monaco	Monaco			Bien sûr	Of course
Le Niger	Niger	Le cinquième république L'indépendance	The 5th Republic Independence	C'est n'importe quoi!	That's nonsense!
Le Rwanda	Rwanda	La liberté	Freedom	Laisse tomber	Forget it
Les Seychelles	Seychelles	La Renaissance	The Rennaissance	Ça te dit?/Ça vous dit?	You up for it?
Le Togo	Togo	Un siècle		Tiens-moi au courant!	Keep me up to date!
Le Vanuatu	Vanuatu	Contemporain	A century Contemporary	Bref	all in all
Les Antilles	French speaking Caribbean	Moderne	Modern	T'sais?	Ya know?
	Islands	Laïgue	Secular	Ça te changera les idées	It'll take your mind off things
		Laique	Jecular	L	L



9.4 Tenses and Festivals – French Vocab List

K	French Year 9	2 Tenses and Festi	vale	Les verbes clés	Key Verbs
Cabot Learning	Fielicii fear 9	.4 Tenses and Festi	Vais	Célébrer	To celebrate
Federation		Les verbes clés	French Festivals	Boire	To drink
Les phrases du passé	Past Tense Time Phrases	Ma fête préférée est	My favourite festival is	Décorer	to decorate
L'année dernière	Last year	Noël	Christmas	Donner les cadeaux	To give presents
Le mois dernier	Last wonth	La veille de Noël	Christmas Eve	Chanter	To sing
Avant hier	The day before yesterday	La venie de Noer	Easter	Danser	To dance
La semaine dernière	Last week		Divali	Allumer les bougies	To light candles
Hier	Yesterday	Le Dipavali	Hanukkah	Manger	To eat
		Le Hanoukka	Eid	Préparer	To prepare
Dans le passé	In the past	L'Aïd		S'amuser	To have fun
Quand j'avaisans L'été dernier	When I was years old Last summer	Le premier avril	April Fool's Day Candelmas	Inviter	To invite
		La Chandeleur	Candelmas New Year	Regarder	To watch
L'hiver dernier	Last winter	Le Nouvel An		S'habiller	To dress up
Il y a (deux ans)	ago (two years ago)	La Saint-Sylvestre	New Year's Eve	Se rencontrer	To meet up with family
Le weekend dernier	Last weekend	La Saint-Valentin	Valentine's Day	Apporter	To bring
Les verbes au passé	Past Tense Verbs	La fête des Mères	Mother's Day	Se relaxer	To relax
Je suis allé(e)	I went	Le 14 juillet	Bastille Day	Se relaxer Passer	To relax To spend
J'ai célébré	I celebrated	Un jour férié	A bank holiday	Réunir	
J'ai mangé	Late	Le premier mai	May Day/Labour Day	Ouvrir	To gather
J'ai bu	I drank	La fête de la musique	Music festival	Voir	To open To see
J'ai ouvert	lopened	L'anniversaire	Birthday		
		Le mariage	Marriage	Je célèbre avec	I celebrate it with
C'était	It was	Un fête	Party	Nous allons nous souhaiter	We wish each other
Les phrase du futur	Future Tense Time	Les invités	Guests	· · · · · · · · · · · · · · · · · · ·	
Les pinase du lucui	Phrases	Les cadeaux	Presents	Les verbes au futur	Future Tense Verbs
L'année prochaine		Le muguet	Lily of the valley	Je vais aller	I will go
L'année prochaine Le mois prochain	Next year Next month	Les blagues	Joke	Je vais célébrer	I will celebrate
Après demain	The day after tomorrow	Un repas spécial	A special meal	Je vais manger	I will eat
		Un cadeau	A cake	Je vais boire	I will drink
Demain	Tomorrow	Les feux d'artifices	Fireworks	Je vais ouvrir	I will open
La semaine prochaine	Next week	Religieux/religieuse	Religious	Ça va être	It will be
Dans le futur	In the future	Traditionnel/traditionnelle	Traditional	,	
Quand j'aurais ans	When I will be years old	En famille	Family		
L'été prochain	Next summer				
L'hiver prochain	Next winter				
Le weekend prochain	Next weekend				



9.4 Tenses and Festivals – French Knowledge Organiser

Verbs and the present tense in French

The infinitive

When you look up a verb in the dictionary, you find its original, unchanged form which is called the *infinitive* (regarder, manger, boire, finir, jouer, avoir, être, etc.). The infinitive ends in **-er**, **-ir** or **-re**.

Forming the present tense in French

Take off the last 2 letters of the infinitive (**-er**, **-ir** or **-re**) and add the following endings depending on the pronoun:

Verbs and the near future tense in French

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

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

Verbs and the past tense in French

You can talk about the past by using the **perfect** tense (*le passé composé*). The perfect tense has 2 parts:

•The auxiliary (avoir or être) - use être with Mrs Vandertramp verbs

•The past participle (must agree in number and gender for *Mrs Vandertramp verbs*) To form the past participle, take off the infinitive endings (**-er**, **-ir** or **-re**) and add **-é**, **i** or **-u**.

J'<u>ai</u> achet<u>é</u> des baskets au centre commercial. *I <u>have</u> <u>bought</u> trainers at the shopping mall.*

Hier il <u>a</u> jou<u>é</u> au foot dans le parc. Yesterday he play<u>ed</u> football in the park.

Hier elle est allée au cinema - Yesterday she went to the cinema

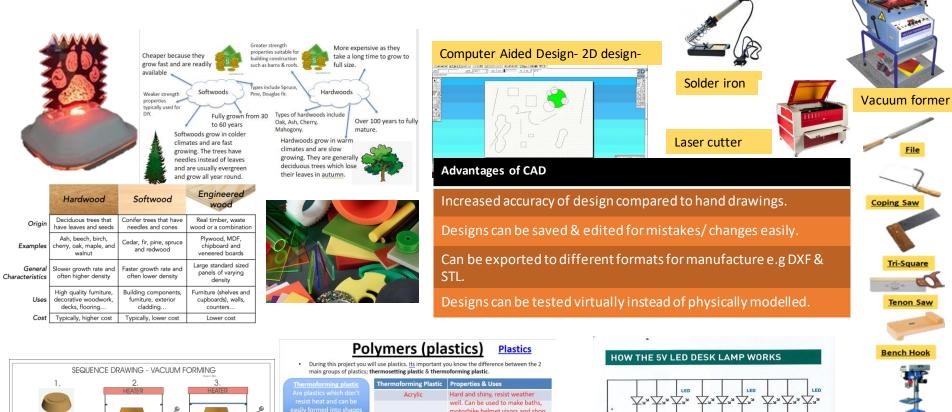
	ER verb	IR verb	RE verb
je	-е	-is	-s
tu	-es	-is	-s
il / elle/ on	-е	-it	1
nous	-ons	-issons	-ons
vous	-ez	-issez	-ez
ils/elles	-ent	-issent	-ent

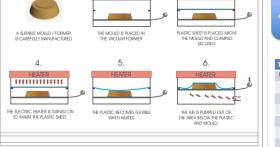
ALLER			
Je vais	I am going		
Tu vas	You are going		
ll /elle /on va	He /she/one is going		
Nous allons	We are going		
Vous allez	You (lot) are going		
lls /elles vont	They are going		

AVOIR	auxiliary	étre	
Avoir		Être	
J'ai		Je suis	
Tu as		Tu es	
ll /elle a		ll /elle est	
Nous avons		Nous sommes	
Vous avez		Vous êtes	
lls /elles ont	lls /elles sont		

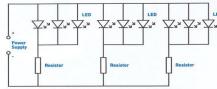


Resistant Materials





	u will use plastics. Its important y s; thermosetting plastic & therm	you know the difference between the 2 noforming plastic.
Thermoforming plastic	Thermoforming Plastic	Properties & Uses
Are plastics which don't resist heat and can be easily formed into shapes by heating and remoulding.	Acrylic	Hard and shiny, resist weather well. Can be used to make baths, motorbike helmet visors and shop display signs.
Thermosetting Plastic	Properties & Uses	
Melamine Formadehyde	Strong and scratch proof. Us to laminate chipboard to for kitchen worksurfaces.	

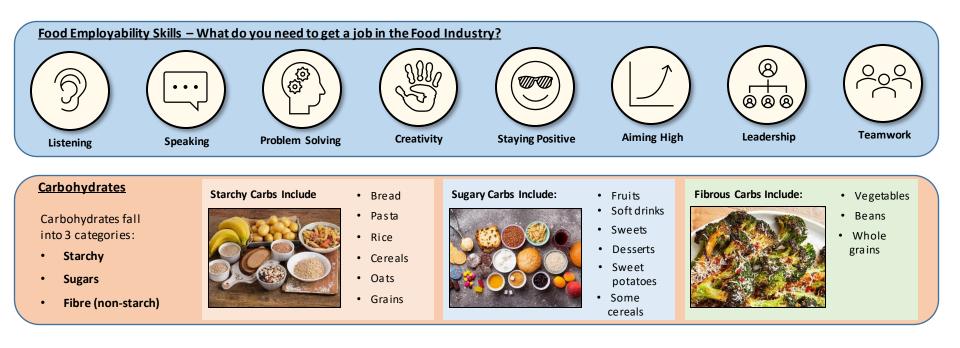


Desk Lamp is shown above. It is a very simple circuit. The board contains nine LEDs, these are grouped in to threes, with each group of three sharing a current limit resistor.

The circuit diagram for the 5V LED LEDs can be damaged if too much current goes through them so a 33 Q resistor is on each 'branch'. This allows around 20mA to each LED or 60mA per branch.







Allergy	What this means	Foods to avoid	Alternatives
Coeliac	Allergy to wheat/gluten. This means that eating gluten triggers an immune reaction which damages the lining of the small intestine.	Foods made with flour cannot be eaten Including cakes, biscuits, pasta and bread.	Gluten free flour or flours made from other ingredients like rice, soya etc.
Nut allergy	Can cause anaphylactic shock where the throat swells until a person cannot breathe. They need to be treated with adrenalin.	Any nut-based products - Some people are allergic to some nuts but not others.	You need to check packets to ensure all ingredients are free from traces of nuts.
Fish and seafood	Can cause an increase in severe asthma. Itching of the mouth, skin reactions, and anaphylaxis causing swelling and possible death.	Any sea food, some everyday fish, and fish supplements	Use other meats and avoid any oils that may contain fish.
Egg allergy	Eggs have two allergenic parts, the yolk and the white. They can cause anaphylactic shock, skin reactions and upset stomach.	Any foods containing eggs including; ice cream, cakes, battered foods etc.	Egg replacer.
Lactose intolerance	The body is unable to digest lactose, a type of sugar mainly found in milk and dairy products. Symptoms commonly include skin reactions, Allergic conjunctivitis, nausea, abdominal pain, vomiting, or diarrhoea.	Any dairy products containing lactose Including cheeses, creams, butter, milks etc.	Lactose free milks and dairy products.



Food Tech

Being Healthy

Staying healthy isn't just about maintaining the correct weight.



It is therefore possible to be the correct weight and unhealthy. Why? Because to be healthy we need the right combination of nutrients.

The easiest way to do this is to eat a wide variety of different foods from the Eatwell Guide and to understand which foods supply which nutrients and why we need them.

When choosing dishes and planning healthy foods the cooking method is important as it can turn a healthy food into a less healthy food.

Adding fat to help to cook food adds calories and excessive calories can lead to weight gain. If a saturated fat (butter, lard, ghee, goose fat) is used then this can lead to high cholesterol which is linked to coronary heart disease. If an unsaturated fat (olive oil, rapeseed, vegetable or sunflower oil) is used this is better for our health but still high in calories.

Potatoes are a good choice of food to consider when understanding how the method of cooking can affect health as they can be cooked in so many ways.

For example:Boiled potatoes = 83 kcals per 100g
Baked potatoes = 87 Kcals per 100g
Chips = 255 Kcals per 100g (more if they are fries)
Crisps = 532 Kcals per 100g

HEALTHIEST COOKING METHODS





STEAMING

-No direct heat -Retains nutrients -Adds flavour

GRILLING

-Minimal oil -Seal in flavour -Reduce fat content



MICROWAVING

-No oil required -Quick cooking -Nutrients intact

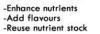


STIR-FRYING

-Minimal oil -Nutrients intact -Great texture



POACHING



-No oil -Nutrients not lost -Taste enhanced in partial cooking

NO COOKING