Knowledge Organiser Summer Term Year 9



Park House School Work hard. Be kind. Take responsibility.

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| YEAR 9| ART Term 3

	Colour Theory and Colour Mixing			
1	Colour Wheel	a diagram used in the visual arts to represent all colours and their relationships to one another. It can be used to help with colour selection when creating artwork		
2	Complementary Colours	Colours on the opposite side of the colour wheel. This combination creates the greatest contrast		
3	Analogous Colours	Colours close to each other on the colour wheel. These combinations create harmony in artwork.		
4	Primary Colours	Colours that cannot be made by mixing other colours but can be used to mix all other colours of the spectrum. YELLOW, RED, BLUE		
5	Process Primaries	YELLOW, MAGENTA, CYAN		
5	Secondary Colours	Colours made by mixing two primary colours together		
7	Orange Green Purple	Yellow + Red/Magenta Yellow and Blue/Cyan Red/Magenta + Blue/Cyan		
8	Tertiary Colours	Colours made by mixing a primary colour with its close secondary colour, such as yellow-green.		
9	Tints and Shades	Lighter or darker version of a colour by adding white to lighten or adding black to darken.		
10	Mixing Brown	Red and Green or orange with a little bit of blue		

	Parts of Light				
1	Highlight	The brightest part of the object			
2	Mid-tone/half-tone	The tones between shadows and highlights			
3	Core shadow	The darkest part of the shadow often on the boundary between half-tones an the shadow area			
4	Reflected light	Light that is reflected of other objects into the shadow areas			
5	Cast shadow	Is the dark area behind the object on the opposite side of the light source			

		Kouworde
		Keywords
1	Proportion	The size of one thing compared to the size of another
2	Centre Line	A line of symmetry can help you draw objects that are the same on both sides, such as a face.
3	Line drawing	Drawing made with lines only
4	Shading	Adding different tones to create 3D effect
5	Composition	The arrangement of different parts of an art piece
6	Pattern	A symbol or shape that is repeated
7	Line	A mark which can be used to make a drawing
8	Shape	A 2D area that is enclosed by a line
9	Tone	The lightness or darkness of something
10	Distortion	The act of twisting or altering something out of its true, natural, or original state.

		Processes
1	Mono-pri nt	An artwork created by transfer of media from one surface to another resulting in a single unique print.
2	Printing	Artwork created by the transfer of media from a matrix or printing block to another surface.
2	Collage	The technique and the resulting work of art in which pieces of paper, photographs, fabric and other ephemera are arranged and stuck down onto a supporting surface.
3	Drawing	The act of making picture with a pencil or pen and other dry media
4	Sculpture	3D artwork designed to be viewed from several angles. Sculpture can be made out of variety
5	Digital Art	Art created using software on a computer of other devices

Year 9 | Computer Science | Artificial Intelligence

Artificial Intelligence

Artificial intelligence is technology that enables a computer to complete tasks that would usually require human intelligence. It does this by taking in information from its surroundings, and deciding its response based on what it senses.

Al needs an <u>algorithm</u> (a set of instructions) to work from, usually written by human programmers. Essentially rules to follow to pick the correct <u>output</u> for different <u>inputs</u>.

Machine Learning

Machine learning is a branch of AI that creates its own rules based on recognising patterns in <u>training data</u>.(eg millions of images of humans for a facial recognition program).

Training data must be carefully selected and the system must be monitored to avoid mistakes and **bias**.

Common Uses of Al

- Voice Assistants (eg Siri and Alexa)
- Sat-Navs
- Chatbots (eg Chat GPT)
- Facial Recognition
- Biometric Security (eg unlocking phones)
- Autocorrect
- Web Searches
- Streaming/Media Recommendations
- Image Generation
- Self-Driving Vehicles

Ethics of Al

Ethics is a part of philosophy that deals with whether a choice is the right or wrong thing to do in a situation.

It is ok for a student to use the internet for homework research but not ok to get AI to write it for them.

Areas of Concern

Potential ethical issues from AI include:

- People's jobs being replaced by AI
- Racial/gender/age/disability bias
- Self driving vehicles having accidents
- Al in law enforcement
- Al generated art/music/media
- Misinformation of social media
- Use of AI in education
- Use of AI in healthcare

Turing Test

An experiment created in the 1950s by Alan Turing, The Turing test is a test to see if a computer can trick a person into believing that the computer (placed in another room) is a person too.

Alan Turing thought that if a human could not tell the difference between another human and the computer, then that computer must be as intelligent as a human.

Image Recognition

Once AI has a set of rules to describe what an object may look like, it can start to identify items that fit the description (eg if an object is long, yellow and in a fruit bowl, it is probably a banana).

Since there are so many factors that go into identifying objects, the system will produce a percentage of how certain it is that the object fits the description.

Factors that may reduce identification:

- How clear is the image?
- What angle was the image taken from?
- Are their obstacles in front of the object?
- Are there details in the background?
- How closely does the object match other objects of the same type?
- How similar is it to other objects?

Al Images

Al generated images are usually created by humans describing what the image should contain.

The system will then try to find images that match that description and copy them. It will often get finer details (like fingers) wrong or copy artists work.



DANCE Year 9 | Performance Skills

Physical Skills			Relationships			DANCE ACTIONS		
1		<u>Posture</u> The way the body is held.	1	Mirroring	Reflecting the movements of another.	1	TRAVEL	When a dancer moves through the space on a pathway.
	<u> </u>		2	Lead and follow	When one dancer manipulates the actions or pathways of other dancers.	2	TURN	When a dancer rotates their body
2	25	<u>Alignment</u> Correct placement of body parts in relation to each other.	3	Complement	Perform actions/shapes which are similar but not the same as others.			around in space.
3	12	Balance A steady or held position achieved by an even	4	Contrast	Movements or shapes that have nothing in common.	3	ELEVATION	The act of rising up, as in a jump.
4		distribution of weight. <u>Coordination</u>	5	Action and reaction	When one dancer moves and the other responds as if having a conversation in movement.	4	GESTURE	An independent movement of part of the body in the air.
5		Efficient combination of body parts. Control The ability to start & stop movement, change direction	6	Accumulation	When a dancer performs a movement phrase and other dancers in the group gradually join in at different times so that all end	5	STILLNESS6	Remaining still in space in a held position.
6		& hold a shape efficiently. <u>Flexibility</u>	7	Counterpoint	in unison. When dancers perform different	6	FLOOR-WORK	Movements which take place sitting, lying or kneeling on the floor.
	Y	The range of movement in the joints.			phrases simultaneously.	7	TRANSFERENCE OF WEIGHT	Shifting the weight of the body from one part to another, e.g.
7		<u>Strength</u> Muscular power.	8	Contact	The state of physical touching e.g. holding, lifting, weight bearing, etc.			from the feet to the hands or hips.
8	2000 AN	Stamina Ability to maintain physical and mental energy over periods of time.	9	Formations	Shapes or patterns created in space by dancers.		N.	Neglicica I
9	Jan 1	Extension Lengthening one or more muscles or limbs.	10	Unison	When all dancers perform together at the same time.		T	

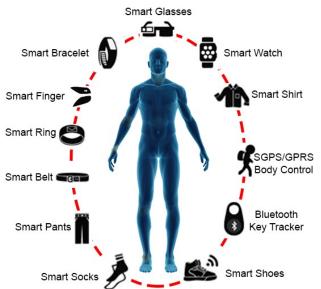
Devising | Drama Year 9 | April-July

	Techniques"				Context			
1	Improvisation	Trying a performance idea and keeping it going	1		Devising	Making a performance from scratch		
		by making it up.	2		Collaboration	The skill of communicating to work creatively together		
2	Staging	How a performance is presented to an audience.	3		Ensemble	A group of people who share responsibility for creating and delivering a performance		
3	Research	The processes of finding	4		Playwright	The person who writes a play		
		information or ideas to support your	5		Director	The person who organises the actors		
4	Story	performance. The selected and	6		Producer	The person in charge of the money		
4	Story	chronological sequence	7		Designers	Lights, Sound, Costume, Set and Props		
		of what happens to characters.	8		Stage manager	Organises all off-stage activity		
5	Structure	The order in which things happen in a	9		Technicians	Operates, lighting sound scenery		
		performance.	10)	Actor	Performs on stage		
6	Stimulus	A starting point for a creative act.			St	age layouts		
7	Style	A set of guidelines and		_				
		techniques for how to make a coherent	1	E	nd on	Audience on one side		
		performance.	2	T	hrust	Audience on three sides		
8	Storm	Creative process of generating ideas.	3	T	raverse	Audience on two sides		
9	Form	Creative process or	4		the .	Audience in a circle		
		selecting, framing, and ordering ideas.			ound			
10	Norm	Creative process of	5		roscenium	End on but with an arch		
	Norm	evaluating and improving		A	rch	over the stage		
		a performance.	6 Pr		romenade	Audience moved to different locations		

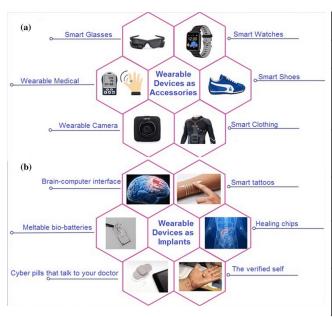
	Physical and Vocal Skills				
1	Pitch	How high or low your voice			
2	Pace	How fast or slow you speak			
3	Pause	A moment of silence			
4	Tone/Emphasis	The emotion of speech and which words are stressed			
5	Volume/Projection	How loud you are/Sending your voice to the audience			
6	Body language	Using your body to express feeling or character			
7	Facial expression	Using your face to express a feeling or thought			
8	Posture	Having a balanced and solid physical position from which to perform			
9	Gesture	Using hands and arms to communicate			
10	Level/Proximity	Using height and space to communicate			
11	Eye contact	Interacting with another character or the audience. (Could include avoiding eye contact)			
12	Inflection	Change in pitch or loudness of the voice.			
13	Accent	A way of speaking in a local area or country.			
14	Gait	A person's manner of walking.			
15	Interaction with other performers	Use of eye contact, focus, proxemics and physical contact with other performers.			

Design & Technology

Year 9



	Wearable devices	Wearable devices					
	Keyword	Meaning and example					
6	Wearable device	These are electronic devices that can be worn on the body, often like accessories or clothing. They can perform various functions and are typically connected to a smartphone or computer.					
	Smart watches	These are like regular watches but with added features such as fitness tracking, notifications, and apps.					
	Fitness trackers	These devices are designed to monitor physical activity, such as steps taken, distance traveled, and heart rate.					
	Smart glasses	These are glasses with built-in displays that can show information like notifications, directions, or augmented reality overlays.					
	Smart clothing	Certain clothing items are embedded with sensors and electronics to track things like body temperature, heart rate, or even posture.					



Internet of Thing	Internet of Things			
Keyword	Meaning and example			
Internet of Things	This refers to the network of physical objects or "things" that are embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet.			
Smart home devices	These include smart thermostats, smart lights, smart locks, and smart appliances that can be controlled remotely via a smartphone or voice commands.			
Connected toys	Some toys are now equipped with IoT technology, enabling them to interact with other devices or be controlled remotely.			
Smart pet gadgets	There are devices that allow you to monitor and interact with your pets remotely, such as cameras, feeders, and activity trackers.			
Environmental sensors	These devices can monitor air quality, temperature, humidity, and other environmental factors in your home or neighbourhood.			

English: Knowledge Organiser 9.3: Rhetoric and Revolution

9.3.1 Resistance

Resistance can mean many things and take many forms. Ultimately, it is a refusal to accept or go along with something. While resistance can be something private, as we have seen in 1984, and sometimes futile resistance can also be done on mass, in large groups and the spoken word can be used to encourage others to resist in the face of injustice

We Shall Fight – Winston Churchill gave this speech in the House of Commons in June 1940. World War 2 • In 1984 the character of Winston wanted to resist against the Party who were in 1984 - George was developing at a rapid pace during this time and Churchill was warning the British Winston Government but he felt incapable of doing so because of the **authoritarian** nature Orwell Churchill people of a possible attempted invasion by Nazi Germany. of his country. Knowing that Britain was facing difficult times this speech was about rallying the British • While he speculated there were those who secretly worked against the Party, such people in support of the War and to prepare them for the hard times ahead. as the Brotherhood, he never openly resisted for fear of being punished but he wanted to. He privately resisted using a diary in which he wrote about things he knew, thought and believed that the Party would not want him to know, think about or believe. In Shakespeare's play Henry V, during the blockade of Harfleur King Henry and his soldiers Once More In contrast Julia, his love interest, felt that open resistance was pointless and that • unto the Breach have just destroyed some French fortifications are about to launch an attack on the resistance was something that could be done in small private acts. French and this speech is used to encourage and embolden them. - Shakespeare (Henry V) The Flame of • In 1940 Charles de Gaulle delivered this speech, Europe was in the midst of World French War 2 with Germany attempting to invade, occupy and take control of much of Resistance -Europe. This was President Kennedy's inaugural speech from January 1961. Ask not what • Germany had invaded and occupied part of France prior to this speech and it was Charles de your country America was facing a challenging time not only were there major social changes and issues believed to mark the foundation of French resistance to German occupation Gaulle causing disruption but America was in the middle of the Cold War Kennedy's speech can do for vou -John F Kennedy aimed to remind the people that though they faced difficulties they had a duty to their An ideal for Nelson Mandela was the leader of the African National Congress who fought against country just as he had a duty to them. which I am the racist apartheid regime in South Africa. • He was imprisoned on charges of sabotage and gave this speech at the start of his prepared to trial. He was given a life sentence and served 27 years of it. die – Nelson Mandela The Hill We This poem is in response to the siege on the Capitol in America. When an armed and angry mob of Trump supporters stormed Capitol Hill and clashed with police as Congress met to Climb -This poem is about the spread of oppression in the world and the consequences of Not My validate Joe Biden's presidential win. She read it at Biden's inauguration and it aimed to Amanda staying silent in the face of **injustice**. Business bring people back together in support of the United States. Gorman Nivi Osundare This poem was written in response to mob attacks by white Americans upon African If We Must This speech was given to the troops at Tilbury as they prepared for the expected invasion Heart of a King American communities during the Red Summer of 1919 during which white Die – Claude – Queen of the Spanish Armada. supremacist terrorism and racial riots took place in more than three dozen cities **McKay** Elizabeth I Elizabeth was trying to build national pride and bravery in her soldiers. across the United States.

9.3.2 Nation

Rhetoric has been used in the past to encourage people to feel national pride. Sometimes this might be because a nation is facing a threat, such as war but sometimes it can be about rallying the people to support a leader and the country that they are trying to lead.

9.3.3 Gender

One reason that people have often had to resist, rebel or start revolutions is gender, individuals fighting for gender equality and recognition.

Freedom or Death – Emmeline Pankhurst	 Emmeline Pankhurst was the leader of the Suffragette movement, she was trying to get voting rights for women. This speech was given in America as an explanation of why the British Suffrage movement had grown militant.
He for She – Emma Watson	 This speech launched the He for She Campaign which aims to encourage people to support equality between the genders across the globe. It also tries to highlight to men that they should be joining the fight as equality will not only benefit men but women as well
You are more than beautiful – <i>Rupi Kaur</i>	 This poem tries to highlight how women are often recognised for their looks rather than their intelligence, resilience and bravery.
When a trans woman is called a man – <i>Laverne</i> <i>Cox</i>	 This speech is about the rights of trans women. Women who are born biologically male but have transitioned and are female. It is about encouraging society to accept and embrace trans identities and for trans women to lead the change they want to see in society. Throughout history women have been oppressed but here we see how that oppression extends and is often worse for trans women who face prejudice and discrimination on a daily basis.
Ain't I a Woman? – Sojourner Truth	 Sojourner Truth was an ex-slave who became a well known anti-slavery speaker. It addressed the differences between the rights of white women and the rights of black women in America during the 19th Century.

9.3.4 Race

Race is another reason that people have had to resist, for years race has been used as a reason to treat human beings differently and for years members of the oppressed races have tried to fight back against their oppressors, be that the government, the police or the people who want them discriminated against.

Remarks by the First Lady at Memorial Service for Dr. Maya Angelou – <i>Michelle Obama</i>	 After the death of Maya Angelou, Michelle Obama said a few words at her memorial service recognising the amazing work that she had done in her life This speech celebrated the contribution that Angelou had made to America and also the impact that Angelou had on Michelle Obama when she was growing up
Caged Bird – Maya Angelou	 This poem had great significance to Angelou, who also wrote her autobiography using a similar title. The poem uses an extended metaphor of a bird in a cage to highlight the struggle of being a black author and poet. Although African American people were free people in Angelou's time, there were still many restrictions on them in society, making it so that many black Americans did not feel free at all.
l Have a Dream – Martin Luther King Jr	 This speech was given in 1963 and was part of the March on Washington which was part of a larger civil rights movement for Black Americans It calls for civil and economic rights and an end to racism in the United States.
Victory Speech – Barack Obama	 While there is still work to be done, particularly in America, in 2008 Barack Obama became the first black president of the United States. His speech not only recognised that he was not the likeliest winner but addressed some of the major problems that were facing modern America and prepared the country for the changes he intended to make and the hard times they would face.
George Floyd Protest Black Lives Matter – John Boyega	 Interestingly, this speech was not planned or pre-written, during the Black Lives Matter Protests which occurred across the western world following the murder of George Flloyd in America, Boyega gave this impassioned speech about how hard it is being a young black man, knowing that racism and discrimination still exist. The speech is calling for a need for long term change and a fundamental change in society's attitudes and outlook.

9.3.5 Climate Crisis

Climate change is a serious modern issue facing humanity today and one that many people are not taking seriously enough, people are now calling for a climate revolution a deep and meaningful change to protect our planet's future.

How Dare You – <i>Greta Thunberg</i>	 In the late 2010s Greta Thunberg a teenager from Sweden began a school strike. She refused to attend school until her government pledged to do more to stop the climate crisis. This speech warns world leaders of the dangerous consequences of their failure to act and make serious fundamental changes to how countries are managing and reducing their carbon emissions.
COP26 Climate Summit – Sir David Attenborough	 At the climate summit is 2021 Attenborough outlined the devastating impact of climate change and outlined how the people and the world leaders need to change to ensure the future of the planet and humanity.
Earth to COP26 – Yrsa Daley-Ward	This poem is a message from the earth to those present at the COP26 climate summit.
Inheritance – John Agard	This poem outlines what will be left of the earth if we do not care for it better
Futurama – <i>Simon Armitage</i>	A poem written in reaction to some of the information he heard from the COP26 climate summit 2021.

9	9.3.6 Keywor	<u>ds</u>	9.3.7 Rhetorical Devices
	Rhetoric	The art or study of using language effectively and persuasively	Hyperbole - exaggerated statements. Rhetorical question - a question used for impact more than answer.
	Revolution	A forcible overthrow of a government or social order, in favour of a new system. / a dramatic and wide-reaching change in conditions, attitudes, or operation	Hypophora - asking lots of questions and then answering them. Direct Address - speaking directly to the audience or reader.
	Ethos	A sense of trustworthiness, reliability and sincerity in a persuasive argument.	Alliteration - the repetition of consonant sounds. Assonance - the repetition of vowel sounds.
	Pathos	Appealing to the emotions and thoughts of an audience in order to persuade effectively.	Fact - something that is known or proved to be true.
	Logos	A logical, relevant argument.	Opinion - a view or judgement, not necessarily based on fact. Anecdote - a short or interesting story about an incident or person.
	Resistance	The refusal to accept or comply with something. E.g a law, a policy, a rule	Tricolon - A pattern of using three units of speech in a row. Epizeuxis - repeating the same word with nothing in between.
	Nation	A large body of people united by common descent, history, culture, or language, inhabiting a particular country or territory.	Anaphora - repeating the same word at the start of a sentence or
	Gender	Either of the two sexes (male and female), especially when considered with reference to social and cultural differences rather than biological ones. The term is also used more broadly to denote a range of identities that do not correspond to established ideas of male and female.	clause. Epistrophe - repeating the same word at the end of a sentence or clause. Anadiplosis - repeating the last word of one clause at the start of the
	Race	Each of the major groupings into which humankind is considered (in various theories or contexts) to be divided on the basis of physical characteristics or shared ancestry.	next clause. Metaphor - a direct comparison between two things.
	Climate	The weather conditions prevailing in an area in general or over a long period.	Simile - a comparison of two things using like or as. Diacope - repeating the same word after a brief interruption.

French: Studies and School Life | Year 9 | Term 3

	French: Studies and School Life	Year 9 Term 3
	French	English
1	Ma matière préférée c'est le dessin car je suis créatif, mais j'aime aussi les maths. Par contre je déteste l'anglais parce que je ne m'entends pas bien avec mon prof.	My favorite subject is drawing because I am creative, but I also like Maths. However, I hate English because I do not get along well with my teacher.
2	C'est un collège mixte. Dans mon collège II y a environ 1500 élèves. C'est super car II y a beaucoup de terrains de sport. Mais malheureusement, il n'y a pas de piscine.	It is a mixed college. In my school, there are about 1500 students. It's great because there are a lot of sports fields. But unfortunately, there is no swimming pool.
3	Dans mon collège il faut être à l'heure . En plus, il est interdit d' utiliser un portable en classe. Je trouve ça raisonnable car il faut respecter les autres.	In my college, one must be in good time. Furthermore, it is forbidden to use a mobile in class. I find it reasonable because one must respect the others.
4	Je suis membre de l'équipe de netball qui à mon avis est très compétitive. J'y vais deux fois par semaine. Quand j'étais à l'école primaire, je jouais aussi au foot mais maintenant je n'ai plus le temps.	I am a member of the netball team which in my opinion is very competitive. I go there twice a week. When I was In primary school, I also played football but now I don't have the time anymore.
5	Je pense que l'uniforme scolaire est pratique, cependant c'est vraiment démodé. Moi, Je préférerais porter mes propres vêtements car sans aucun doute c'est plus confortable.	I think that the school uniform is practical, however, it's really old-fashioned. Me, I would prefer to wear my own clothes because without any doubt it is more comfortable.
6	Je vais continuer mes études au lycée même si ce n'est pas facile. Si je réussis le bac, j'irai à l'université pour avoir un métier mieux payé plus tard.	I will continue my studies in high school even if it is not easy. If I pass the baccalaureate, I will go to university to get job better paid later.
7	Récemment, j'ai visité un musée à Londres avec mon collège. C'était très instructif car il y avait tellement de choses à voir , et nous avons passé une très bonne journée.	Recently I visited a museum in London with my college. It was very informative because there were so many things to see, and we had a very good day.
8	Je dirais que c'est une bonne idée car on peut améliorer ses compétences en langues et se faire de nouveaux amis.	I would say that it is a good idea because you can improve your language skills and make new friends.
9	Pour rester en forme , je mange sainement et je fais de l'exercice régulièrement . Je ne fume pas car autant que je sache c'est mauvais pour la santé et c'est une perte d'argent.	To stay fit, I eat healthy and exercise regularly. I don't smoke because as far as I know it's bad for my health and it's a waste of money.
10	Les cours commencent à neuf heures et finissent trois heures. Nous avons cinq cours. A la récré, on bavarde et à midi, on mange et puis on va jouer au foot avant de retourner en classe. Bien que ce soit assez court, c'est fatigant!	Lessons start at nine o'clock and end at three o'clock. We have five lessons. At break, we chat and at noon, we eat and then we go to play football before going back to lessons. Although it is quite short, it's tiring!

	River landforms	Processes of erosion and transportation	Key terms				
Waterfalls	Created when the river flows over an area of hard rock followed by soft rock.	Attrition: Where pebbles hit each other or landforms, making rocks break and get smaller and rounder. Abrasion: When sediment is thrown against a surface	weathering	The breakdown of material in situ by physical, chemical and biological processes; if movement is involved this becomes erosion.			
Gorges	Over time waterfalls top lip collapses occur and the waterfall retreats creating a	by water and rubs the material to smooth the land. solution: Where rocks are dissolved in water. Hydraulic action: Where water forces its way into	igneous	Rocks formed within the interior of the Earth from molten rock			
	gorge.	cracks, which creates weaknesses in rocks, splitting them apart.	sedimentary	Rocks formed by layers of sediment, usually at the bottom of the sea.			
V-shaped valley	The river erodes vertically downwards near its source creating V-shaped valleys	Traction – the movement of larger sediment rolling along the bottom of the sea or a river. Saltation – small pieces of sediment picked up	metamorphic	Rocks that have been changed as a result of heat and pressure being applied to them for long periods of time.			
floodplains	When a river floods onto the floodplain the water slows and deposits the eroded material. This builds it up	temporarily in the water Suspension – smaller particles can be suspended in water.	geomorphic processes	Processes that result in a change in the shape of the Earth; from 'geo' meaning the earth and 'morph' meaning to change shape.			
Meander The current if faster on th outside of the bend.	The current if faster on the	Solution – when minerals dissolve in water Deposition: the laying down of materials that have been transported (due to loss of energy).	lateral erosion	Erosion sideways; this widens the river valley and channel as the river meanders (bends). If is dominant in the middle and lower course of			
	place on the river bend	Coastal Landforms		a river.			
	forming a river cliff. The current is slower on the inside of the bend. So eroded material is deposited on the	Beaches - Beaches are areas of land that lie between the storm-tide level and the low-tide level. They can be made up of sand, pebbles or a mixture of both. Spits - Spits are created when the coastline ends but	cross profile	Shows you what the cross-section of the river channel looks like; it should be narrow and shallow at the source and very wide and deep at the mouth			
Oxbow	inside forming a slip-off slope erosion causes the outside of	the process of longshore drift continues. If the conditions are right the sediment is deposited and is	longshore drift	The movement of sediments along a stretch of coastline as a result of wave action			
lake	bends to become closer and the river breaks through.	built up to create new land. Caves, arches, stacks and stumps Erosion by waves widens the weakness in the cliff to	sea walls	Walls made on concrete to reflect and absorb wave energy to prevent erosion.			
	Deposition cuts off the meander forming an ox-bow lake	form a cave. Waves widens the weakness in the clinit to an arch. Collapse of arch due to gravity to form a stack. e) The stack is undercut all the way round as	rip-rap barriers	Large rocks placed in front of cliffs to dissipate wave energy to protect the cliffs behind from erosion.			
Levees	Raised banks formed by repeated flooding and deposition of river sediment (alluvium) on the river banks	wave cut notches form. It eventually collapses to leave a stump which is covered at high Ade	gabions	Wire cages filled with stone used to absorb wave energy to prevent erosion			

The Miners Strike | Year 9 | Summer 1 May-June

		15	S SUIRE Teal 9 Suilline I May-Jui						
Ке			1984 –	1985 Miners Strike	Vocabulary				
'King Coal'	economy – by 1913 British coal mines produced 300 million tonnes each year. Britain exported coal to the rest of the world for profit.	1	Miners Tactics	Miners used various tactics including using Pickets , Flying Pickets and targeting Scabs to try and stop the supply of energy to the country and force the	1	Pit Villages	Small communities that developed around coal mines for families of miners		
The Coalfields	people were employed in coal mining – the largest coalfields in the UK were in Northumberland, South Wales	2	Pickets and the Police	Pickets often clashed with police who were sent to protect working miners and keep the mines open.	2	Trade Unions	An organisation that fights for the rights of workers in a specific industry The UK's first female		
National Union of Miners	The NUM was the most powerful trade union in Britain. It was led by Arthur Scargill , he was a militant meaning he believed strike action was the		Miners Support groups The Failure	did not get paid. Miner's wives set up support groups such as Women against Pit closures to provide support	3	Margaret Thatcher	prime minister (elected 1979) who wanted to privatise coal, reduce the size of the Welfare state and limit the powers of trade unions		
1970s	The Miners went on strike in 1972 and 1974 demanding higher wages. Their aim was to force the government to give in	1 2	Government Preparation Police Tactics	The Conservative government had stockpiled coal The government trained the police in new military-style	4	Battle of Saltley Gate 1972	15,000 miners successfully closed a fuel storage depot in Birmingham		
	Britain's supply of energy	3	Economic	techniques. Many miners returned to work as their families were	5	Picket	A miner who is on strike and trying to close his mine		
Three Day Week	Minister Health to introduce a Three Day Week.	4	Role of the	starving All major newspapers	6	Flying Pickets	Miners bused to other places to close mines		
1984 – 1985	In 1984 the government announced that 20 pits would close and 20 000 jobs would be	5	Divide and Conquer	Some regions did not strike (e.g. Nottinghamshire)	7	Picket Line	A group of pickets trying to close a mine		
Miners Strike	lost. This caused the NUM to announce a strike.	6	No National Ballot	Law said the unions had to have a ballot before strike action	8	Scabs	Miners who did not on strike and worked		
	'King Coal' The Coalfields National Union of Miners 1970s Three Day Week 1984 – 1985	Key topics'King Coal'Coal was vital to the British economy – by 1913 British coal mines produced 300 million tonnes each year. Britain exported coal to the rest of the world for profit.The CoalfieldsBefore World War 1, 1.2 million people were employed in coal mining – the largest coalfields in the UK were in Northumberland, South Wales and YorkshireNational Union of MinersThe NUM was the most powerful trade union in Britain. It was led by Arthur Scargill, he was a militant meaning he believed strike action was the only way to save jobs.1970sThe Miners went on strike in 1972 and 1974 demanding higher wages. Their aim was to force the government to give in to their demands by stopping Britain's supply of energy1984 – 1985 Miners StrikeIn 1984 the government announced that 20 pits would close and 20,000 jobs would be lost. 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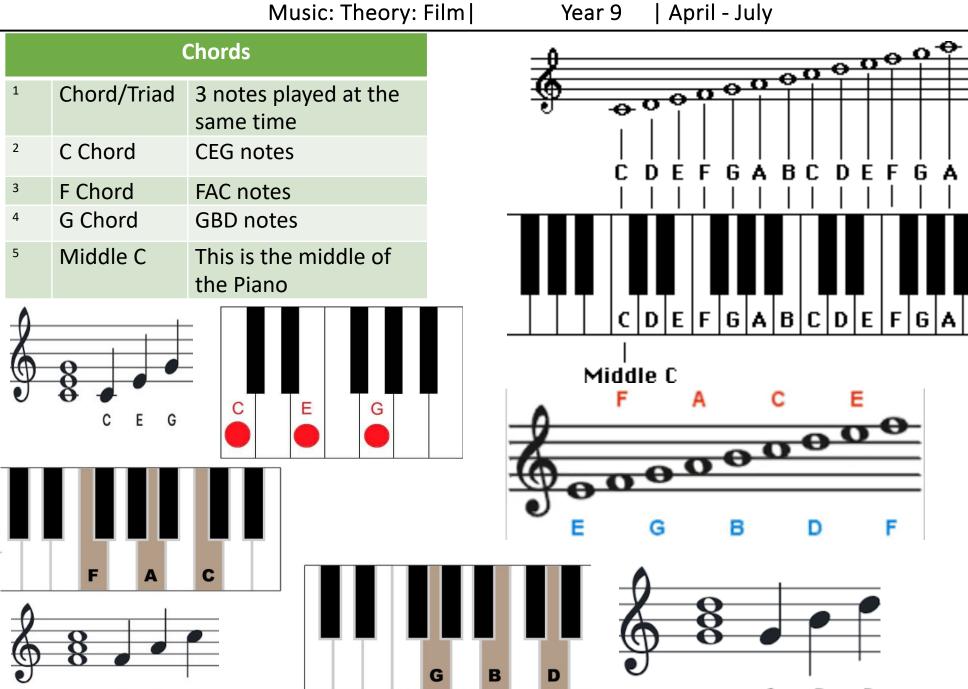
The Holocaust | Year 9 | Summer 2 June-July

The Holocaust			Jewish life in Europe before WW2					Lien's Story (Case study)			
1	Nazi Germany	1930s Germany under the Nazis brought anti-Semitic laws and violence In Novemeber 1938,	1	Western EuropeS Jewis with spoEastern EuropeThe Je a predor JewisEastern EuropeMost 		ne Jewish population was small and assimilated ish children went to school ith Christian children and		Lien's Childhood	Lien grew up in the 1930s in the Netherlands. Lien went to school		
	Kristallnacht	synagogues were destroyed, Jews killed and arrested	2			spoke the same language. The Jewish population was large			with all sorts of children and whilst		
3	The Holocaust	During the Second World War the Nazis attempted to exterminate the Jewish	3			and segregated. Jews ominantly lived in separate ish villages called Shtetls at Jews spoke a separate			her family was Jewish she did not go to a synagogue or wear		
4	_	population of Europe As the German army advanced eastwards, mobile	5			language called Yiddish, wore traditional clothes and sent their children to Jewish schools		Lien Under Nazi Occupation	religious clothes Lien was attacked by Dutch children She was forced along with all Jews to wear the Yellow star of		
	The Einsatzgruppen	killing squads found and murdered whole Jewish towns and villages.	1			formation The Nazis invaded and					
5	The Final solution	After 1942, the Nazis set up death camps across Eastern Europe. This was described		Polan	d	occupied Poland in 1939. They set up ghettoes and forcibly moved the			David. Jews were banned from public places		
6		as the Final Solution. These were designed to kill	_			Jewish population into these areas	3	Lien and the	Lien's parents were murdered in		
	Death camps	large numbers of people. Jewish populations were	2	Ghetto	es	es Segregated areas of cities where Jews were controlled and the rights		Holocaust	Auschwitz. Nearly all of Lien's extended family was killed		
7		moved to camps such as Auschwitz from ghettoes. The largest death camp, 1.1	3	Collabor	tion	significantly limited Many people worked with the Nazis to help	4	Lien in hiding	Lien's parents gave her to Mrs Heroma who organised the		
	Auschwitz	million people were murdered at this camp		Collabora	ation	imprison Jews (e.g. La Milice in France)			hiding of hundreds of Jews in Netherlands		
8	Consequences	6 millions Jews were murdered 90% of Jewish children in Europe	4	Resistar	nce	In Denmark the population helped smuggle Jews to Sweden The Warsaw Ghetto uprising	5	Lien's life after the Holocaust	Lien trained as a teacher and married in 1959 having three children		

	Α	ngles			Bearings		Volume & Surface Area				
1	Angle	The figure formed by two straight lines	1	Cardinal directions	North, South, East, West	1	Volume	The amount of size within a 3D shape			
2	Polygon	meeting a 2D shape with straight lines	2	Bearing	The angle in degrees measured clockwise from North	2	Volume	Units - m^3 , cm^3 , mm^3 etc			
2	Regular	All the sides are equal	3	Clockwise	Moving in the direction of the hands of a clock	2	Surface Area	The total areas of each face of			
3	polygon	and all angles are equal	4	Protractor	An instrument used for	3	Surface Area	a 3D shape			
4	Parallel	Straight lines that	4	Protractor	measuring or drawing angles	4	Prism	A 3D shape that has the same cross-section all the way			
		never meet	-	Constant	To draw accurately using a			along it			
5	Transversal	A line that cuts across two or more other	5	Construct	compass, protractor and ruler	5	Volume of a cube/ cuboid	length imes width imes height			
		lines	6	Scale	The ratio of the length of a drawing to the length of						
		Two equal size lengths	0	Scale	the real thing	6	Volume of a	area of cross			
6	Isosceles	and angles – in a triangle or trapezium		Dythagoras			prism	$-$ section \times length			
					Pythagoras						
7	Sum	Addition – the total of all interior angles added together	1	Pythagoras' theorem	$a^2 + b^2 = c^2$	7	Volume of a cylinder	$\pi r^2 h$			
8	Interior angle	Angles inside the shape	2	Square number	The output of a number multiplied by itself	8	Volume of a cone	$\frac{1}{3}\pi r^2h$			
9	Protractor	Equipment used to measure angles	3	Square root	A value that can be multiplied by itself to give a square number	9	Volume of a	$\frac{1}{3}$ × area of base × height			
10	Compass	Equipment used to draw arcs and circles	4	Hypotenuse	The largest side of a right- angled triangle. Always opposite the right angle.	10	pyramid Volume of a sphere	$\frac{4}{3}\pi r^3$			

	Area and Perimeter			Trigo	onometry	Transformations				
1	Area	The space inside a 2D shape The length around			The largest side of a	1	Enlarge	To make a shape bigger or smaller by a given scale		
2	Perimeter	the outside of a 2D shape	1	Hypotenuse	right-angled triangle. Always opposite the right angle.	2	Scale factor	factor The multiple describing how much a shape has		
3	Circumference	the length around the outside of a				Z		been enlarged		
4	Radius	circle The length from the centre of a circle to	2	Opposite	The side opposite the angle of interest	3	Line of symmetry	A line that passes through the centre of a shape with a mirror image on either		
-	Ruurus	its circumference	3	Adjacent	The side next to the			side Mapping of one object		
5	Diameter	The length from one side of a circle to the			angle of interest The ratio of length of	4	Reflect	from one position to another of equal distance from a given line		
		other, through the centre.	4	Sine ratio	the opposite side to the hypotenuse.	5	Rotate	Movement around a fixed point by a certain number of degrees		
6	Pi (π)	The ratio of a circle's circumference to its diameter. 3.14159	5	Cosine ratio	5 Cosine ratio	Cosine ratio the ad	The ratio of length of the adjacent side to the	6	Translation	When an object is moved from one place to another by a given vector
7	Sector	A part of a circle enclosed by two radii and an arc			hypotenuse. The ratio of length of	7	Invariant	A point that does not move after a transformation		
8	Area of a circle	πr^2	6	Tangent ratio	the opposite side to the adjacent.	8	Horizontal	A straight line parallel with		
9	Area of a sector	$\pi r^2 \times \frac{\theta}{360}$				J		the x-axis		
10	Area of a trapezium	$\frac{1}{2}(a+b)h$	7	Inverse	Function that has the opposite effect.	9	Vertical	A straight line parallel with the y-axis		

	To create	e or enhance a mood		To function as a Leitmotif				
1	OSTINATO	A repeating Pattern	1					
2	TREMOLO	Strings repeating the same	2	Lentinotii		A frequently recurring short melodic		
		not very quickly	3	MO	NOTHEMATIC	One theme throughout		
			4	MI	CKEY-	Sound mimics actions of cartoons		
3	CRESCENDO	DYNAMICS		MC	USING			
		(Volume)gradually	5	CLI	СК	To time the action to the music		
		getting louder		TRACKS				
		0 0						
4	SILENCE	No sound before something		Theory				
	0	dramatic (to make you jump!)	:	L	Time signature 4 or 3	This tells us how many beats in a bar, that you need to count. The top number tells how many beats; Eg. 4 or 3		
5	Drone	Two notes sounded together			4 4			
		as an accompaniment, a long held note	2	2	. ;	This is a repeat mark. It means you go bar to the beginning and play the music again.		
			3	3	Rhythm	Is a pattern of sound which can be repeated to a regular beat.		
6	Chords	3 notes played at the same time.	2	1	Rests	A rest is a musical sign that indicates a beat of silence. It still counts in the value of the bar .		
			Ę	5	Pulse	A pulse is a steady, regular beat that continues throughout a song.		



F A C

G B D

PHSE – Year 9 – Respectful and Intimate Relationships

	ey definitions:	KP2: Healthy and Unheal	thy Relationships	KPI3: Relationships, marriage and family
	ealthy Relationships: Healthy relationships involve honesty, trust, respect and open ommunication between partners, and they take effort and compromise from both people.	Healthy Relationships	Unhealthy Relationships	Marriage: a legally accepted relationship
TI • Ui ch im	here is no imbalance of power. hhealthy Relationships: An unhealthy relationship can be defined as one that is haracterised by an ongoing pattern of behavior, such as lack of communication, power hbalances, lack of mutual respect, lack of boundaries, physical abuse, verbal abuse, motional abuse, etc.	 You know when you're in a healthy relationship because you feel happy to see and spend time with certain people they could be members of 	The signs of an unhealthy relationship are easy to spot. • People stop	 between two people in which they lived together, or the official ceremony. Cohabitation: another way of saying a couple are living together. This can be formalized with a least expressed and and and and and and and and and an
of • C	arriage: a legally accepted relationship between two people in which they lived together, or the ficial ceremony. Shabitation: another way of saying a couple are living together.	your family, your friends, your work mates or even a romantic partner.	communicating, become less close, argument frequently	formalised with a legal agreement called a cohabitation contract. This outlines the rights and obligations of each partner towards each other e.g. About how you
w	vil partnership: A civil partnership is a legal relationship which can be registered by two people ho aren't related to each other. They are available to both same sex couples and opposite sex puples.	 No relationship is ever perfect, and you will have moments when mine disagreements will rise to the surface causing 	 and show less love and respect for each other. There are many reasons that a 	 Civil partnership: A civil partnership is a
	exual consent: The giving of permission by a person to engage in any form of sexual activity. firmative consent: Consent is only given when a person agrees verbally to engage in sexual	frustrations with others	reasons that a relationship might	legal relationship which can be registered by two people who aren't related to each
ac	itivities. Dercion: The action or practice of persuading someone to do something they wouldn't normally do	 there are many factors that contribute to the development and maintenance of have your 	breakdown. Often it has to do with the personalities, attitudes	other. They are available to both same sex couples and opposite sex couples.
• A	something they don't want to do by using force or threats. person who is minor : A person who is under the age of 18 and legally considered a child.	relationships including commitment, trust, respect	and behaviours of the individual. Other	Registering the civil partnership will give you relationship legal recognition. This
	ontraception: Methods that are used to prevent pregnancy from occurring during sexual activity. ormonal methods: Contraceptive methods with the use of hormones to prevent pregnancy, usually	and responsibility,	causes come from outside the	will give you legal rights, as well as responsibilities.
	ed by women only. arrier methods: contraceptive methods which prevent pregnancy by stopping the sperm from	What is needed to keep a relationship strong?	relationship.	
	aching the egg. Inmbination methods: Contraceptive methods which use both hormonal and barrier methods to	- Building a relationship on	There are many ways to deal with or improve an	Attitudes towards marriage/civil partnerships
pr • Na	event pregnancy. atural Methods: contraceptive methods which do not use hormones or barriers, mostly focused on rtility awareness.	friendship and being a good team. - Being realistic in your	unhealthy relationship – we could try listening more to others and become more	Why might people choose a marriage/civil partnership?
• Po	prnography : Printed or visual material containing the explicit description or display of sexual organs activity, intended to stimulate sexual excitement.	expectations and putting in effort.	aware of their needs.	 To make a lifelong commitment Love Societal expectations
• So ac	oft Porn: Films, magazines, photographs etc. that show sexual images such as nudity but not sexual t.	 Communicating well Talking constructively about any 	We could examine our own behaviour honestly and try	- Family expectations
	ardcore Porn: Films, magazines, photographs etc. that shows sex in a very detailed way, or shows ery violent or unpleasant sex.	issues when they first arise so that bigger problems don't develop.	to identify aspects of it which is causing conflict with others. However, the	Why might people choose not to marry/form a civil partnership?
• Re	hild Pornography : Sexually explicit material depicting anyone under the age of 18. Evenge Porn: Revealing or sexually explicit images or videos of a person posted on the Internet, pically by a former sexual partner, without the consent of the subject and in order to cause them	 Having good support networks Having friends and family around 	best way to improve an unhealthy relationship	 Independence Divorce rates Potential cost
di	stress or embarrassment. Exting: Sending sexually explicit messages or pictures via mobile phones, instant messaging or	you to help when life is tough.	between partners is by getting advice.	- Religious connotations

PHSE – Year 9 – Respectful and Intimate Relationships

					<u> </u>	5		
KPI4: On-Screen Relationships	PKI6: Pornography							
Why aren't there many examples of healthy and realistic	Birth control	What is it?	How to use	Prescription Needed	Protects against STIs	Pornography Laws in the UK:		
relationships in TV, film and online?				Needed	against STIS	 The legal age to buy/access pornographic material is 18, be 		
 Romantic relationships in the media tend to be over dramatised to make them interesting and more exciting to watch They are often a relationship has to be portrayed in a 	Oral Contraceptive	Most contraceptive pills stop ovulation by preventing the ovaries from releasing an egg each month. Oral contraception needs to be taken around the same time each day.	Take one pill every day as directed	Yes	No	 this magazine, DVD's or internet access. It is legal to watch pornography in the UK as long as it doesn't feature under 18's, sex with animals, torture, scenes of rape or sexual assault, scenes which are violent to the point of life threatening or likely to cause serious harm. 		
 very short amount of time, so things move very quickly People on reality TV possibly have other motives and will act differently because they know they're being watched Casting can often be limited There are limits to what can be shown on TV and film 	Injection	Each injection is more than 99% effective at preventing pregnancy. This method stops ovulation and makes the fluid at the opening to the uterus (womb) thicker, stopping sperm from getting through. The injection lasts 12-14 weeks.	Get injections every three months	Yes, injection given in health care providers office	No	 Under 18's who film or take sexual pictures of themselves or others can be charged with child pornography offences which can lead to prison sentences of up to 10 years. Even if all involved agreed. It is illegal to watch pornography with an under 18, this is considered a form of abuse. 		
 They're usually designed for entertainment rather than to provide a public health message or education. What impact might this have on how young people think 	Female condom	It is a loose non-latex pouch with a flexible ring at each end that sits in the vagina, to stop sperm from getting into the uterus.	Insert every time before sex	No	Yes	 It is illegal to make and/or distribute pornographic photographs or films without all participants knowledge and consent. This can lead to up to 2 years in prison. 		
 about their own relationships? It may cause inaccurate expectations about how quickly relationships should develop 	Male condom	It is a is a strong latex (rubber) pouch that is put over the erect penis to stop sperm from getting into the vagina.	Partner must wear every time during sex	No	Yes	 Ways in which pornography can distort views of relationships and sex include Sex ends when the man ejaculates and orgasms. Women orgasm every time they have sex. 		
 It may lead to people accepting arguments/breakups as a typical part of relationships It could possibly desensitise to issues such as cheating It could lead to lowered self-esteem and concerns about body image compared to celebrity culture It may lead to individuals believing they are only worthwhile if in a relationship There are very few models of what healthy relationships look like. 	 Reversible Informed. Enthusiast doesn't se 	en. It's not okay to pressure, trick, or threat . It's okay to say yes and then change your You can only consent to something if you h ic. You should do stuff you WANT to do, no em enthusiastic stop and check in.	 People use insults and abusive language when having sex. Everyone wants to have sex all the time. Sex is an aggressive act of dominance of one partner over another. Women are portrayed as bored and sexually frustrated. People want to have sex with more than one person at a time. External ejaculation is expected and common. Anal Sex is common and popular amongst heterosexual 					
 Who are these representations of relationships appropriate for? Film, DVD and online classifications can help identify what viewing is appropriate for your age range. Some films, TV programmes shown after 9:00 PM, or online content aimed at older viewers are more likely to have more graphic representations of relationships and may focus on 'grittier' storylines which represent unhealthy relationships. 	 Specific. Sa yes to othe Consent cannot b When a period Asleep or b someone p They are b 	aying yes to one thing (like going to the bee er things (like having sex). De given when: Passed Out – if they are not conscious, they passes out whilst engaging in sexual activity Inderage – Legally a person under the age ability or learning difficulties which mean t	 bedroom to make out) doesn't mean you're saying couples. Sex is good every time. Penises are large (over 6inches) Sex is all about what men want and men are in control. Women are expected to dress up and wear make up for 					

YEAR 9 | Science | Experimental and Mathematical Methods

What is an independent	Variable that causes another variable to change	What is the difference	Line graph looks like a dot to dot; scatter graph	Which number is represented by the prefix milli?	0.001, 10^-3, 1/1,000
variable?	(cause)	graph?	we tend to draw a line or curve of best fit.	Which number is represented	0.001, 10 -3, 1/1,000
	Variable that changes	What is the definition of	How close the measurement is to the actual	•	1,000, 10^3
	because of a change to	accurate?	value.		0.000001, 10^-6,
•	another variable (effect)	What is the definition of	Difference between measurement and actual	•	1/1,000,000
	Variable that we must	random error?	value that can't be predicted	Which number is represented	1/ 1/000/000
	keep the same during our	What do we call a result that	· · · · · · · · · · · · · · · · · · ·	•	1,000,000, 10^6
What is a control variable?		does not fit the pattern or			0.000000001, 10^-9,
What goes in the left hand	- P	trend?	Anomalous result / outlier	•	1/1,000,000,000
column of a results table?	Independent variable	What is the definition of	The smallest measurement that can be made	Which number is represented	_, _,,,
What goes in the right		resolution?	with a measuring device.	•	100000000, 10^9
hand column of a results		What is the definition of	Difference between the largest value and the	What prefix do we use to	,
	Dependent variable	range?	smallest value.	represent 10^-3 (1/1000 or	
	An object/substance that	What is the resolution of an		0.001)?	milli
	could cause harm to	ordinary 15 or 30 cm ruler?	1mm	What prefix do we use to	
What is a hazard?	someone.			represent 10^9	
	The harm that could be	What is the definition of a	Difference between measurement and actual	•	Giga
	caused to someone by a	systematic error?	value that is same each time.	What prefix do we use to	Ū
What is a risk?	hazard.		An error caused by the reading not being zero	represent 10^-9	
What is a control	Actions we can take to	What is a zero error?	when no measurement is being made.	(1/1,000,000,000 or	
measure?	reduce the risk of harm.	How we can we avoid	Set the measuring instrument to zero before	0.00000001)?	nano
Where do we write the		including zero errors in our	measuring or subtract the initial reading from the	What prefix do we use to	
units in a results table?	Column headings	measurements?	final reading to calculate an accurate reading.	represent 10^3 (1,000)?	kilo
What is an anomalous	A result that does not fit	What is the definition of	Repeated measurements are close together	What does gradient tell us	
result?	the pattern / trend.	precise?	(small random errors)	about a graph?	How steep the line is
What is the definition of	Data that can only have	Why does doing repeats and		What is the gradient of a	
categorical data?	certain values.	taking a mean improve the		horizontal section of graph?	Zero
What is the definition of	Data that can have any	.	Reduces the effect of random error		Find the point at
continuous data?	value on a scale.	What is the definition of	Anyone could get the same experimental result	How do we find the y intercept	which the line crosses
What type of graph should			again	of a graph?	the vertical (y) axis.
we draw for continuous				What is the rule for calculating	
	Scatter / line	What is the definition of	If same person did same experiment again, they	the area of a trapezium?	½ (a+b) x h
What type of graph should		repeatable?	would get the same results	What does the graph of a	
we draw for categorical		Which of the following gives		directly proportional	Straight line through
	Bar / pie	the best definition of	If someone else did the same experiment, they	-	the origin
Which variable usually		reproducible?	would get same results	What does the graph of an	Downwards sloping
goes on the horizontal axis		Why might a scientist's	Hasn't kept control variables constant; confused	inversely proportional	curve, never touches
of a scatter graph?	Independent	conclusion not be valid?	correlation with causation; other factors involved.	relationship look like?	either axis
Which variable usually		What is the definition of	The smallest measurement that can be made		
goes on the vertical axis of		resolution?	with a measuring device.		
a scatter graph?	Dependent				

Spanish: Migente | Year 9 | Term 3

Español	English
En mi familia hay mi padre, mi madre y mi hermana mayor.	In my family there is my mum, my dad and my older sister.
Mi abuela tiene los ojos azules y el pelo gris y rizado.	Mi grandmother has blue eyes and grey curly hair.
También lleva gafas, pero no es ni alta ni baja.	Also, she wears glasses and is neither tall nor short.
Creo que mi padre es muy trabajador y un poco gracioso.	I think my dad is very hard working and a bit funny.
Me llevo bien con mi tía porque me hace reír.	I get on well with my aunt because she makes me laugh.
Sin embargo, me peleo con mi hermano ya que es verdaderamente molesto.	However, I argue with my brother because he is really annoying.
Un buen amigo es alguien que te apoya.	A good friend is someone who supports you.
Uso Instagram para compartir fotos y subir vídeos.	I use Instagram to share photos and upload videos.
Creo que las redes sociales son populares pero pueden ser peligrosas.	I think that social networks are popular but can be dangerous.
En mi opinión, lo malo de la tecnología es que es adictiva.	In my opinion, the bad thing about technology is that it is addictive.
Me encanta leer revistas porque son entretenidas.	I love to read magazines because they are entertaining.
De vez en cuando leo novelas de amor.	From time to time I read love novels.
Por otro lado, nunca leo periódicos puesto que es aburrido aunque mi madre dice que es informativo.	On the other hand, I never read newspapers because it is boring although my mum says it is informative.
Prefiero leer en formato digital porque es más barato que los libros tradicionales.	I prefer reading e-books because it is cheaper than traditional books.

KEY PROCESSES AND THEIR STEPS		THREADING THE SEWING MACHINE	
TEXTURAL RUBBINGS	 Place newspaper on the table. Place a leaf (with the veins facing up) on top of the newspaper. Place the paper/fabric on top of the textured surface (example could be a leaf). Using the fabric crayon or wax crayon (lying flat), rub over the surface of the paper/fabric to capture the textural surface. Swipe the surface, do not scrub. Repeat this until the entire piece of paper/fabric is filled with patterns and rubbings of the textured surface. Once filled with rubbings, place the fabric (not for paper) between two layers of greaseproof paper (top and bottom) and iron until the fabric no longer feels waxy. 	STEP 1	Turn Off the Sewing Machine: Before you begin threading up TURN OFF your sewing machine! This is for safety, as your hands will be near the needle and moving machinery.
		STEP 2	Put the Needle Up: Turn the handwheel on the side of the sewing machine towards you until the needle is fully up.
		STEP 3	Positioning the Thread Spool: Begin by putting the thread spool onto the spool holder. You may also have a spool holder that is sitting sideways.
INTEGRATED WEAVING	 Cut a selection of fabric strips from fabric that are not stretchy, too thick or thin and give good colour. On a piece of fabric that fits on your book page, fold it in half and cut ACROSS the fold to create slices. ***Do not cut all the way to the end of the fabric.*** Once you have cut long slices down the length of the fabric, unfold your fabric and thread your needle. You will need a knot on the long tail end of the thread. Begin on one side of sliced fabric (WEFT) and weave (using PLAIN weave) the fabric strips (WARP) through the slices from top to bottom. Repeat this process until the entire piece of WARP fabric has WEFT strips woven through. 	STEP 4	Back Thread Guide: Holding the thread place it through the back thread guide. There should be a small groove or hook. Make sure the thread goes through this otherwise the machine won't sew correctly.
		STEP 5	Front Thread Guide: Take the thread down the front channel and around the front tension guide at the bottom.
		STEP 6	Through the Take-up Leaver: Take the thread up from the front thread guide and through the take-up lever hook.
INK AND WATER PAINTING	 Using a running stitch (in and out like a dolphin) to secure the top of the weft strips in place. Once done, repeat to secure the bottom. Draw onto the surface of a piece of paper or fabric with water soluble marker pen. Add in details with mark making (e.g. cross hatching or stippling) to add more ink onto the surface. Using water and a paintbrush, apply water to the surface, this then turns the pigment from the marker into a paintable surface. Blend and mix the ink around the fabric or paper to allow the marker to be painted onto the surface of your work. Let dry, if you want to add detail in again, you can. 	STEP 7	Above Needle Hook: Pull the thread down the channel from the take-up lever and through the small hook above the needle. This hook is usually around the same spot the top of the needle sits.
		STEP 8	Thread The Needle: Place the thread in the eye of the needle from the front through to the back. Pull the thread under the presser foot and past the back of the machine to create a long thread tail.
		STEP 9	Insert the Bobbin: Remove the bottom cover by pulling it towards you and place the bobbin into the bobbin case. Follow the arrow directions on the bobbin cover for the way to position the bobbin correctly.
POLYPRINTING	 Draw pattern lightly onto polystyrene block. Using sweeping motion, imprint the pattern into the block deeper with a biro – this must be done in layers, not just "gouging" holes in the block. Make sure that all ridges and lines are deeply drawn into place in the pattern. Using a sponge and fabric paint, print the polystyrene block onto fabric and paper in repeating patterns. Formal Pattern – deliberate and organised pattern placement. Informal Pattern – random and disorganised pattern placement. 		
		STEP 10	Pull Up the Bobbin Thread: Hold the top thread tail while turning the handwheel towards you on the sewing machine. You should see the bobbin thread looped around the top thread. Pull until you can grab the bobbin thread. Replace the bobbin cover on the machine.