Year 9 Term 1A



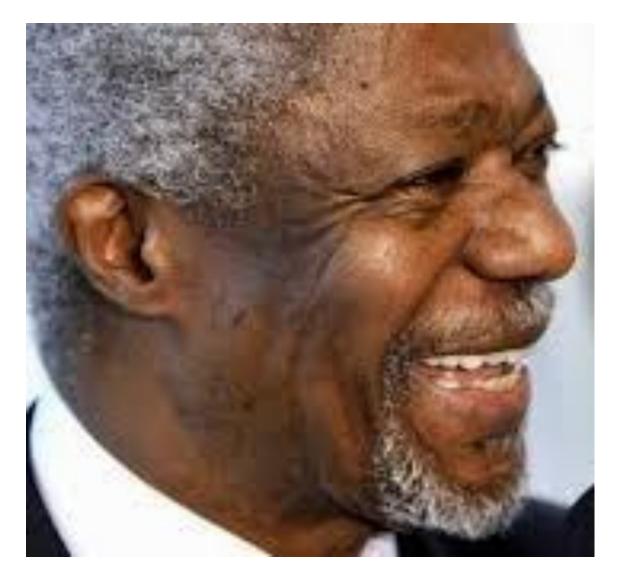
Name_____

Form_____









"Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family"

Kofi Annan (research who he is)

Year 9
Knowledge Organiser:
Term 1A

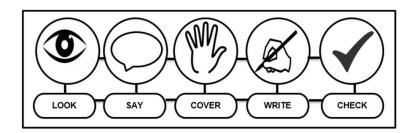
Instructions for using your Knowledge Organiser

The timetable on the next page tells you which subjects you should be studying on which days (it doesn't matter if you have that subject on that day or not, you should follow the timetable).

You are to use your exercise book to show the work you have done. Each evening you should start a new page and put the date clearly at the top.

You need to bring your KO and exercise book with you EVERY DAY to school. Your KO and exercise book will be checked regularly in form time.

You will also be tested in your lessons on knowledge from the organisers.



You must use the revision strategy Look - Say - Cover - Write - Check to learn the knowledge. You can also use your KOs and book in a number of different ways but you should not just copy from the Knowledge Organiser into your book.

Presentation

You should take pride in how you present your work:

- Each page should be clearly dated at the top right hand side with the **Subject** written in the middle e.g. English.
- Half way down the page a line should divide it in two with Next Subject e.g.
 Maths written above the dividing line.
- Each half of the page should be neatly filled with evidence of self-testing. There should be an appropriate amount of work.
- Failure to show pride in your presentation or wasting space on your page with large writing or starting a number of lines down will result in a negative AtL.



Year 9 Knowledge Organiser Homework Timetable

You are expected to study the subjects shown on your timetable each day. You need to spend 20 minutes on each subject and you will need to evidence your work in your exercise book.

WEEK A	Subject 1	Subject 2	Subject 3
MONDAY	English	Spanish	Geography
TUESDAY	Science	Maths	PD
WEDNESDAY	History	Music	Science
THURSDAY	RE	Maths	Food
FRIDAY	Computing	Technology	English

WEEK B	Subject 1	Subject 2	Subject 3
MONDAY	English	Drama	Geography
TUESDAY	Science	Maths	RE
WEDNESDAY	History	PE	Science
THURSDAY	RE	Maths	Spanish
FRIDAY	Computing	Art	English



Reading Log

"The more that you read, the more things you will know. The more that you learn, the more places you'll go"

Use this reading log to record the books you read and how long you have spent reading.

Dr Seuss

Week	MON	TUE	WED	THURS	FRI	SAT	SUN	Book(s) read (title and author)	Time spent reading	Parent comment/signature
Week 1										
Week 2										
Week 3										
Week 4										
Week 5										
Week 6										
Week 7										
Week 8										



Subject Specific vocabulary

Task 1: Learn	the spelling and definitions of the following terms.		
Appositive	Noun or noun phrase that provides extra information or further identifies		
	another noun/noun phrase.		
Epithet	An adjective or phrase describing a characteristic of the person/thing		
	described e.g. the wine-dark sea.		
Juxtaposition	The fact of two things being seen or placed close together with contrasting		
	effect.		
Protagonist	One of the major characters in a narrative.		
Exposition	The opening of a story, introducing characters, setting and plot.		
Climax	The most intense, exciting, or important point of a narrative.		
Denouement	The solution of a mystery, the winding up of a plot, the outcome of a set of events.		



Subject Specific vocabulary

Task 2: Le	arn the spelling and definitions of the following terms
Rhetoric	Language designed to have a persuasive or impressive effect.
Metaphor	Language that transports meaning from one 'place' to another. E.g. Juliet is the sun.
Ground	The relationship between the tenor and the vehicle. E.g. 'Juliet is the sun.' Both are bright/warm.
Tenor	The subject of a metaphor. E.g., 'Juliet is the sun,' Juliet is the tenor.
Vehicle	The imagery used to describe the tenor. E.g. 'Juliet is the sun,' The sun is the vehicle.
Sonnet	A poem of <u>fourteen</u> lines using any of a number of formal <u>rhyme</u> schemes, typically having ten <u>syllables</u> per line.



Task 3: Complete the definitions and learn the spelling and meaning of the words.				
Vocabulary	Definition			
Blasphemy				
Convulsive				
Dissident				
Lustrous				
Pervaded				
Poignant				



Task 4: Complete the definitions and learn the spelling and meaning of the words.				
Vocabulary	Definition			
Prodigious				
Malevolent				
Ostracised				
Redemption				
Remarkable				
Solitude				



Year 9 Maths - Term 1A: Fractions, Percentages, Probability and Standard Form

All Maths homework is set online through **Sparx Maths**. Set and due in every **Wednesday at 8am**.

Use the QR code on the right to access the site or go to www.sparxmaths.uk and choose student.

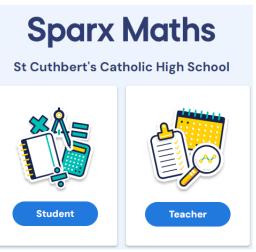
To log in, use your school email address and the password you use to access the school computers.

e.g. Joe Bloggs 22BloggsJ@stcuthberts.com

We have chosen to use Sparx Maths as

- The homework is personalised to you.
- Sparx Maths keeps learning from your attempts to create challenging yet achievable questions each week.
- It is proven to improve students grades in Maths.
- There are support videos for each question, if needed.
- It provides your teachers with lots of insights about which topics you need more help with.
- It has consolidation questions each week to help you remember more.
- Because homework is made specifically for you, you will be able to answer every question correctly, but
 - □ some questions may take slightly longer than others
 - □ some questions will probably need more than one try to get it right.







Year 9 Maths - Term 1A: Fractions, Percentages, Probability and Standard Form

Use your Knowledge organiser book to write down your question number, working out and answers. This will help you to pass your bookwork checks so that you will get fewer.

Compulsory personalised homework is set and due in each week on a Wednesday at 8am, this includes questions on topics you have recently covered in class, consolidation work and times tables. If you complete it by Monday 8am you will earn extra class charts points!



5

XP Boost

M

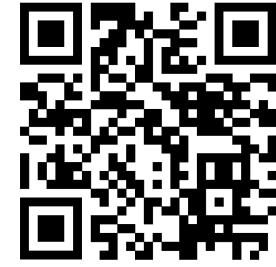
Target

Sparx produces three personalised task for your each week. Two are optional.











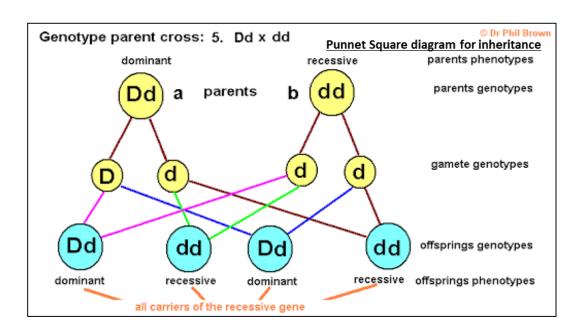
-- Ö-Independent Learning

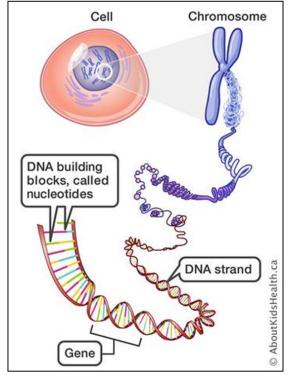
IF YOU DO NOT HAVE ACCESS TO A PHONE, COMPUTER, LAPTOP, TABLET COME TO THE SPARX CLUB TUESDAY LUNCH TO
COMPLETE YOUR HOMEWORK

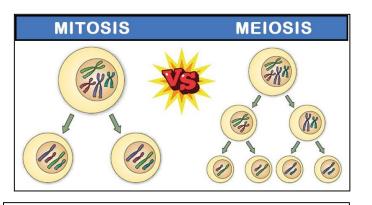


Uses of DNA Technology

- Paternity testing
- · Crime Scene Investigation DNA profiling
- Human Genome Project Mapping the entire sequence of the human genome
- Medicine to detect genetic disorders and assist in gene therapy advances
- Agriculture Genetic modification of plants to improve desirable traits such as increased crop yield.







Discovery of DNA

DNA was first discovered in the mid-19th century, but its function remained a mystery. In the early 1950s two scientists, Rosalind Franklin and Maurice Wilkins, studied DNA using X-rays.

Franklin produced an X-ray photograph that allowed two other researchers, James Watson and Francis Crick to work out the 3D structure of DNA. The structure of DNA was found to be a double helix. Crick and Watson's model served to explain how DNA replicates and how it carries genetic information in humans. This set the stage for the rapid advances in molecular biology that continue to this day. Molecules carry the genetic instructions used in the growth, development, functioning and reproduction of all known living organisms.

Key Words

Allele	Different forms of the same gene e.g. the gene for eye colour could be brown, green or blue	
Chromosomes	Long, coiled molecules of DNA	
DNA	Chemical that contains genetic material	
Dominant allele	A type of allele where only one copy of the allele needs to be present for the phenotype to be displayed	
Gamete	Sperm or egg cell with only half the number of chromosomes a normal (somatic) cell	
Gene	A small section of DNA that codes for a protein. Each gene codes for a sequence of amino acids (and amino acids make up a protein)	
Genome	The entire set of genetic material in an organism	
Genotype	The two alleles you have for a certain characteristic e.g. the genotype for brown eyes could be Bb	

Heterozygous	The dominant and the recessive allele are present e.g. Bb
Homozygous	Both alleles are the same e.g. BB or bb
Mutations	Change to the sequence of bases in the DNA - insertions, deletions and substitutions
Nucleotides	DNA is formed from repeating units of nucleotides. Nucleotides are made from a sugar, a phosphate and a base
Phenotype	The actual characteristic that is shown because of the genotype e.g. brown eyes is a phenotype
Proteins	Made from amino acids
Recessive allele	A type of allele where two copies of the allele need to be present for the phenotype to be displayed
Ribosomes	Where proteins are made



Areas like tropical rainforests have millions of different species and are very biodiverse. Other areas like the Polar Regions have far fewer species and are less biodiverse.

Biodiversity is specifically the number of different species. An area with large **populations** of few species is not biodiverse.

Interdependence - If the numbers of one species are affected, there are almost always knock-on consequences. A simple food chain is:

algae \rightarrow zooplankton \rightarrow sand eel \rightarrow puffin \rightarrow arctic skua.

If the numbers of zooplankton are reduced by pollution, such as plastic waste, then more algae will grow and the population of other consumers will fall potentially resulting in extinction.

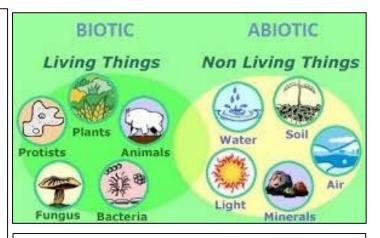
Ecosystems with higher biodiversity have fewer species that depend on just one other for food, shelter and maintaining their environment. With the example above, puffins could also eat molluscs and worms.

Ecosystems with higher biodiversity are more stable as they can easily adjust to changes.

We are slowly realising that the future of our species on Earth depends on maintaining high biodiversity.

Activities that create air and water pollution, are reducing biodiversity in many ecosystems. Conservation of

species and habitats by charities, governments and individuals helps to maintain the range of biodiversity.



There are five major

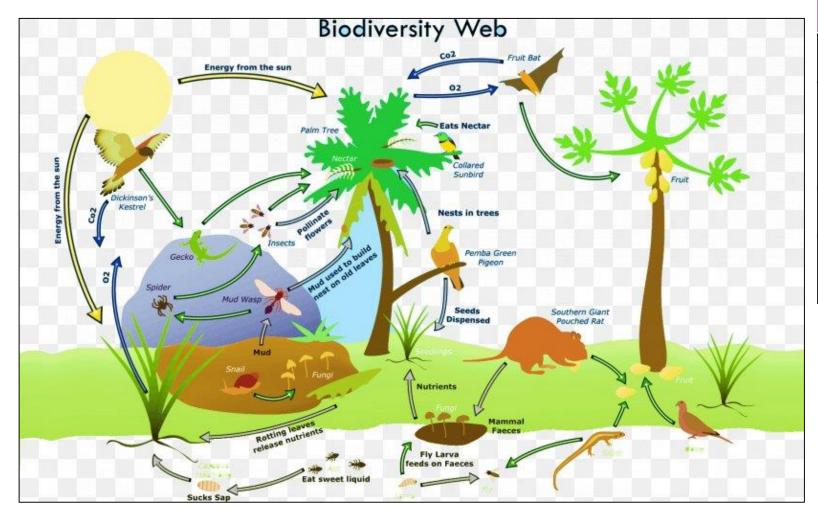
causes of extinction:

- habitat loss
- a newly introduced species
- pollution
- population growth
- overconsumption e.g. deforestation or hunting of a species

Importance of biodiversity

Biodiversity is important to humans for many reasons. ... Ecological life support - biodiversity provides functioning ecosystems that supply oxygen, clean air and water, pollination of plants, pest control, wastewater treatment and many ecosystem services





Key Words

abiotic	a non-living part of an ecosystem that shapes its environment
biodiversity	the variety of plant and animal life in the world or in a particular habitat, a high level of which is usually considered to be important and desirable
biotic	the living components of an ecosystem
ecosystem	a biological community of interacting organisms and their physical environment



Year 9 Religious Education - Term 1A: Creation and Covenant

- 1) Christians believe that human life is special and sacred as it was created by God, with love and for a purpose this belief is 'the sanctity of life'. The Genesis creation stories tell us we are made 'imago dei', and that God gave man life and then created woman.
- 2) Marriage is one of the sacraments of the Catholic Church; family is seen as the building blocks of society. An important purpose of marriage is procreation (having children). Marriage is a life long commitment; a promise made before God.

I, ____, take you, ____, for my lawful wife/husband, to have and to hold from this day forward, for better, for worse, for richer, for poorer, in sickness and in health, until death do us part.



The belief that all human life has value from the very beginning to the very end impacts Christian views on many issues including abortion and end of life care. Dame Cicely Saunders founded the first hospice in 1967, providing palliative care.

You matter because you are you. You matter to the last moment of your life, and we will do all we can to help you not only to die peacefully, but also to live until you die. Cicely Saunders



Sources of Wisdom and Authority (SOWAA)

So God created mankind in his own image, in the image of God he created them; male and female he created them. *Genesis 1:27*

then the Lord God formed man from the dust of the ground, and breathed into his nostrils the breath of life; and the man became a living being. Genesis 2:7

Big Questions:

matrimony

- √ What is so special about human life? is
 it more important than animal life?
- √ Is ALL human life equally important?
- √ What does it mean to have inalienable dignity? What difference does it make?
- √ Is marriage an out-dated idea these days?
- ✓ Does life have value right to the end?

Key words	Definition		
Imago Dei	Latin phrase meaning 'in the image of God'.		
dignity	Being worthy of respect and honour; belief that all human beings deserve to be treated with dignity because they are part of God's creation in his image (from the Latin dignitas meaning worth/worthiness).		
Inalienable dignity	Christians believe that all humans have a special value just because they are human. It cannot be taken away. It is nothing to do with class, gender, etc.		
Sanctity of life	Human life is sacred; it is a gift from God; we are created by God.		
Marriage	A legally binding joining of 2 people in a relationship. For Christians it is a lifelong commitment and a covenant with God.		
sacraments	Sacraments are celebrations. They mark stages of life and are outwards signs and symbols which show that an inward gift from God has been given. There are seven sacraments in the Catholic Church.		
Sacrament of	This sacrament celebrates a life-long commitment		

between two people, a man and a woman.

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Year 9 Religious Education - Term 1A: Creation and Covenant

Sources of Wisdom and Authority (SOWAA)

So the LORD God caused the man to fall into a deep sleep; and while he was sleeping, he took one of the man's ribs and then closed up the place with flesh. Then the LORD God made a woman from the rib he had taken out of the man,she shall be called 'woman,' for she was taken out of man." That is why a man leaves his father and mother and is united to his wife, and they become one flesh. Genesis 2: 21-24

Jesus replied "But at the beginning of creation God 'made them male and female.' 7 'For this reason a man will leave his father and mother and be united to his wife, and the two will become one flesh.' So they are no longer two, but one flesh. Therefore what God has joined together, let no one separate." Mark 10: 6-9



Do you not know that your bodies are temples of the Holy Spirit, who is in you, whom you have received from God? You are not your own; you were bought at a price. Therefore honour God with your bodies. 1 Corinthians 6: 19-20

Everyone is responsible for his life before God who has given it to him. It is God who remains the sovereign Master of life. CCC 2280

(Marriage is...) "an extraordinary good, a good of extraordinary value for everyone: for the spouses themselves, for their children, for all families with whom they form relationships, for the entire church, for all of humanity," Pope Francis



w/b 16 Sept	Key words & definitions	w/b Oct 7	SOWAA 3, 4, 5 (blue)
w/b 23 Sept	Section 1 & SOWAA 1 & 2 (red)	w/b Oct 14	SOWAA 6, 7 (purple)
w/b 30 Sept	Section 2 (blue)	w/b Oct 21	recap all

Year 9 Geography - Term 1A: How can ice shape our landscape and what opportunities or challenges can it bring?

Key Terms:

Ice Age - A time period when ice advances from the north and south poles towards the equator.

Ice Sheet - A large, expansive body of ice, 1-2 miles thick which covers a land surface, covering continental areas.

Glacier - A frozen land-based river like feature, flowing from the upland areas down towards the low-lying coastal areas.

Accumulation - the build up of snow in layers which is compressed into ice.

Ablation - the melting or breaking up of the ice.

Glacial Landforms

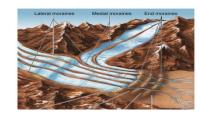




An arête is a knife-edge ridge. It is formed when two neighbouring corries run back to back.

A pyramidal peak is formed where three or more corries and arêtes meet.





Moraines are accumulations of dirt and rocks that have fallen onto the glacier surface or have been pushed along by the glacier as it moves.

A corrie is an armchair-shaped hollow found on the side of a mountain. This is where a glacier forms. Plucking and abrasion deepen the corrie into a deep hollow with a higher rock lip at the front. When the glacier melts this lip traps the water and creates a lake called a tarn.





10,0000 years ago the UK was covered in Ice. This means a lot of our landscape has been shaped by glaciers. We can see cories, arêtes, tarns and moraines in the UK today despite there not being any glaciers now.

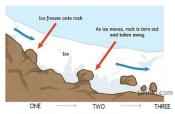
Glacial Erosion

Abrasion - When the ice wears away the bedrock using the rock and pebbles being carried in the base of the glacier.

Plucking - When the base of glaciers freezes onto bedrock and pulls up large pieces of bedrock as it flows over the land surface.

Freeze-thaw weathering - The action of water flowing into cracks, freezing as ice and widening the cracks so much that rock breaks apart.







How is Climate change effecting glaciers around the world?

Global warming is resulting in glaciers melting all over the world.

This is resulting in water shortages for those people who rely on melt water and is creating sea level rise.







Benefits of glaciated areas



Tourist Attractions - People visit these places to enjoy the beautiful landscape created by glaciation. This environment is popular with tourists because it provides opportunities for walking, cycling, sailing and kayaking.

Agriculture - Fertile soils of lowland areas provide good opportunities for arable and livestock farming. This also creates jobs and provides a boost for the economy. When glaciers melt in summer their meltwater flows into rivers and onto floodplains.



Hydro-electric Power energy that uses the power of
water to generate
electricity. Glacial areas are
perfect because

- -Steep sided mountains
- -Reliable meltwater in the spring and summer.

Drawbacks of living in glaciated areas

Flooding - When glaciers melt rapidly or a glacial lake floods it releases a huge volume of water. This can flood the valley below destroying homes, business and killing people.



Avalanches are masses of ice moving or falling downhill. They can destroy habitats, homes and kill people.

Lake District Case Study





15 million tourists visit the lake district every year.

People visit to walk, climb, swim and cycle in the glaciated landscape. This brings in money to the local economy however it results in congestion, littering and footpath erosion.

Tasks...

- 1. What was the extent of the ice in the UK during the last Ice Age?
- 2. Describe and explain the formation of a glacier.
- 3. What is mass balance?
- 4. How does a glacier erode the landscape?
- 5. Explain the formation of a corrie, arête and pyramidal peak.
- 6. Why is the soil fertile in glacial environments?
- 7. Explain how climate change is affecting glaciers and ice sheets around the world.
- 8. Why is it important as a geographer to understand glaciation?

Do you research....... Choose a named glacier and research what is happening to it, how it is changing and the impacts this is having on the surrounding area and people

Prepare for your KAT

Question: Do you think cold environments offer more opportunities of challenges to the people living there? Use examples in your answer.

- 1. BUG the question by boxing the command word and underlining the content you need to write about.
- 2. List the key vocabulary you will use.
- 3. Create a plan of what you would write in each paragraph.
- 4. Practice writing your answer from memory.

Year 9 History - Term 1A: Women and World War One

1. suffrage / franchise	the right to vote			
2. suffragist	woman who campaigned peacefully for the right to vote			
3. suffragette	a suffragist who may have used violence			
4. tactics	actions or strategy			
5. militant	using violent methods			
6. campaign	a series of actions towards and end goal			
7. martyr	person who is willing to die for their beliefs			
8. hunger-strike	refusing to eat in prison, as a protest to gain media attention			
9. force-feeding	forcing hunger-strikers to eat			

Patricia Woodlock was a Liverpool born Suffragette. She was imprisoned seven times, including serving the longest suffragette prison sentence in 1908; she was awarded a Women's Social and Political Union Hunger Strike Medal for Valour/courage.



Key Suffragette Leaders

Millicent Fawcett. Leader of suffragists. Peaceful campaigner. President of the NUWSS

The Pankhurst Family.

Emmeline, Christabel and Sylvia all campaigned for votes for women. Emmeline and Christabel founded the WSPU a militant group).

Emily Wilding Davison. She joined the WSPU in 1906 and took part in militant action. Davison is best remembered for her final protest, which caused her death. At the Epsom Derby in June 1913, she threw herself in front of the King's horse. She died of her injuries four days later. It is not known whether she intended to commit suicide.

Key dates:

1918 Representation of the People Act: All women over 30 gain the right to vote.

1928 The Equal Franchise Act: All women over the age of 21 gain the right to vote.

Democracy = A government that is run by the people.



Year 9 History - Term 1A: Women and World War One

The First World War: 1914-1918

- Sparked by the assassination (murder) of Archduke Franz Ferdinand.
- The M.A.I.N causes of WWI were: Militarism, Alliances, Imperialism and Nationalism.
- The Allies (The Entente Powers): Great Britain, France, Belgium, Russia and the USA.
- Central Powers: Germany, Austria, Hungary, Bulgaria and Turkey.
- Men were recruited into the army in 'Pal's Battalions' which were groups of men who were friends and who signed up together and then fought and died together.
- 8 million soldiers were killed and 21 million injured.
- Fighting happened on the Western Front along the boarders of France and Belgium.
- Germany's Schlieffen Plan led solders to fight on the Western Front. Trenches developed over time in which soldiers lived and fired from.

The Armistice

The Armistice was the ceasefire/truce that ended hostilities between the Allies and Germany on the 11th of November 1918. The Treaty of Versailles was created in June 1919 by the victors (winners) Britain, France and America. Germany were forced to sign the treaty (agreement) and it was bitterly hated by the Germans.

Militarism is a belief that a strong military force should be maintained and used aggressively to defend or promote national interests.

Alliances are a relationship in which people, groups, or countries agree to work together.

Imperialism is the idea of expanding one's territory by taking over another country. **Nationalism** is a strong attachment to a particular country, or nation. It is also called patriotism.

Recruitment is the process of actively seeking out, finding and hiring candidates for a specific position or job.

The St Helens Pals



The battalion (division) was formed in September 1914 as the result of a public meeting held by Lord Derby at the Theatre Royal, St. Helens. After training at Bangor, Grantham and Larkhill they landed in France on 6 November 1915.

In 1916 they took part in the Somme Offensive when 30th Division succeeded in their objective of capturing Montauban.

In 1917 they saw action at Arras, Messines and Passchendaele.

In 1918 the battalion was effectively destroyed when the German attack in March cost over 400 men killed, wounded and missing. The battalion was reduced to a small unit, training newly arrived Americans, with most of the survivors being transferred to 19th Lancashire Fusiliers.



Year 9 PD - Term 1A: Equality and Diversity

What do we mean by equality and diversity?

It's making sure everyone is treated equally no matter what their differences are.



Watch this – about gender equality

The Equality Act (2010) was introduced to offer legal protection to those people with one or more 'protected characteristics'. The protected characteristics are:

- Age
- Disability
- Gender reassignment
- Marriage and civil partnership
- Pregnancy and maternity
- Race
- Religion or belief
- Sex
- Sexual orientation

What does Diversity do for us?

- Allows us to be global citizens and learn about the world.
- Helps everyone to feel included.
- Provides us with a richer life experience surrounded by different cultures.
- Helps us to grow as we take on board different perspectives and opinions which challenge our thinking

Hate Crimes:

A hate crime is defined as 'Any criminal offence which is perceived by the victim or any other person, to be motivated by hostility or prejudice based on a person's race or perceived race; religion or perceived religion; sexual orientation or perceived sexual orientation; disability or perceived disability and any crime motivated by hostility or prejudice against a person who is transgender or perceived to be transgender.' (Metropolitan Police)



Year 9 Art - Term 1A: Looking at Art

Artists and designers often record ideas, observations and insights that come to them as they produce their work. These insights can help them to analyse and evaluate the effectiveness of the work that has been produced.

Being able to analyse a work is an essential part of evaluating it. Recording this evaluation ensures that the creative process is communicated clearly.

'art is crucial for young people, as a medium for expression, passion and emotion, and a means of challenging ourselves and the world around us' - Anon

Key Words and Specialist Vocabulary:

Media: the materials and process used to create the Art work.

Opinions: a view or judgement formed about something, not necessarily based on fact or knowledge.

Genre: a style, especially in the arts, that involves a particular set of characteristics.

Composition: is the placement or arrangement of the visual elements, such as figures, trees, and so on in a work of art, as distinct from the subject or the style with which it is depicted.



Year 9 Art - Term 1A: Looking at Art

How to do visual Art analysis.

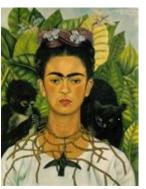
The following is a basic guide or checklist that you can use to help breakdown and talk about Art that you like.

- 1. Describe what you can see. In the picture
- 2. Scale: size of the picture or sculpture
- 3. Composition and space in the picture
- 4. Formal elements like LINE, COLOURS, TONE, TEXTURE, PATTERN
- 5. Materials or media used. This could be anything, pencil, paint or even video
- 6. Context: is there a meaning; whether political, religious or cultural
- 7. How does the picture make you feel? Your opinion is subjective and could be totally different to someone else's

Can you name the Artist. What can you find out about your favourite picture?







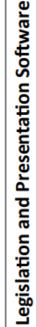












Legislation relates to a set of laws put in place by a governing body. In the UK we have 3 laws which relate to Computer Science, these are:

- The Copyright, Designs and Patents Act 1988
- The Computer Misuse Act 1990
- The Data Protection Act 2018

The Computer Misuse Act 1990

Attempts to discourage people from using computers for illegal purposes. There are three separate parts to the Act:

- It is illegal to access data stored on a computer unless you have permission to do so. Unauthorised access is often referred to as hacking.
- It is illegal to access data on a computer for further illegal activity, such as fraud or blackmail.
- It is illegal to make changes to any data stored on a computer when you do not have permission to do so.. This includes installing a virus or other malware.

The maximum punishment for breaking this law is a £5000 fine or several years' imprisonment.

However, one key part of the law is that **intent** must be proved. If a computer is not well protected, someone could accidentally access its data without meaning to. Someone might also accidentally change a document without realising it.

The Data Protection Act 2018

Personal data is private and should only be accessible by authorised people. Digital files stored on computers can be easy to access, copy and share. Protection is needed to make sure that our personal data is kept private and not altered or deleted.

The Data Protection Act exists to ensure our data is properly looked after

The Data Protection Act is built around 8 principles which state how personal data should be treated:

- Personal data must be fairly and lawfully processed.
- Personal data must be obtained for specified and lawful purposes.
- Personal data must be adequate, relevant and not excessive.
- Personal data must be accurate and up to date.
- Personal data must not be kept for longer than is necessary.
- Personal data must be processed in line with our rights.
- 7. Personal data must be held securely.
- Personal data must not be transferred to other countries outside the European Economic Area, unless those countries have similar data protection laws.

Copyright, Designs and Patents Act 1988

An original piece of work is automatically covered by copyright. It could be a piece of music, a play, a novel, photos or a piece of software.

Copyright can be enforced by law. It is against the law to copy and distribute copyrighted material without the copyright owner's permission.

Software is covered by copyright. It prevents:

copies being made and given to friends and family for free, or being sold for profit

using software on a network, where multiple users can access it (unless the license permits it)

lending the software to friends or family

There are exceptions. Some copyright owners allow their work to be copied and distributed for educational use or for non-profitable use. The copyright owner will make this clear.

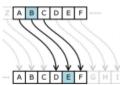
Creating a presentation Checklist:

- Be aware of your target audience
- Limit the pictures and range of colours/fonts
- Be consistent with your style across all slides if possible
- · Always check it over
- Embed music and video where appropriate
- Don't overdo the animations—are they being used to good effect?

You should also know how to protect data

Encryption is the process of changing data or information into a code so that it prevents unauthorised access.

A simple method of encryption is the Caesar Cipher. The letter of each word in a message is 'shifted' along so that the original message can no longer be read.



With a shift of 3, 'BAD' becomes 'EDG'.

To decrypt the message you would count 3 backward through the alphabet. E.g.

"FDE' is decrypted to "CAB' by counting back 3 letters each time.

Target Audience

The group at which your presentation is aimed

Embed

Incorporate within the presentation (rather than linking to an external source eg hyperlink)



Year 9 Design and Technology - Term 1A: Cam Toy

Tech Health and Safety

- Wear an APRON at ALL times.
- ALWAYS follow instructions and rules.
- Do not take shortcuts.
- Ask for help if you need it.
- When using machinery ALWAYS wear EYE PROTECTION & MACHINE GUARDS.
- Do not TOUCH machines or equipment unless you have permission.
- NEVER run in the workshop.

Scan the QR codes to watch a video about health and safety.



Key vocabulary	Definition			
Isometric drawing	This is a form of 3D drawing, which is set out using 30-degree angles.			
Linkage	The stored energy possessed by a system.			
Lever	Plastic can be heated and shaped many times.			
Equilibrium	High-density polyethylene, a thermoplastic.			
Driver	Plastic that can not be reheated or remoulded.			
Mechanism	Anything that can cause harm or danger.			
Kinetic energy	Is the force which is faced by the vehicle as it moves through the air.			
Revolution	Is the push that lets something move up.			
Tolerance	The difference between the maximum and minimum dimensions of error.			
Marking Out	Measure in mm and mark using a pencil and steel ruler for accuracy.			

Mechanisms in life and industry



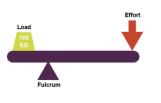
Scan the QR codes to watch a video about Mechanisms in life and industry.

Product Analysis.

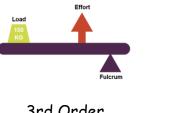
A product analysis is where we look at a product in greater detail and break it down to help us understand certain aspects of the product to help further generate design ideas.

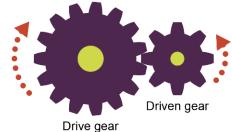


Year 9 Design and Technology - Term 1A: Cam Toy











2nd Order

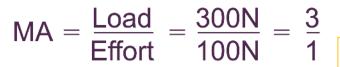
3rd Order

Measuring

Materials are measured in different ways depending if they are small or large quantities. Here are some of our most used measurements and their abbreviation. Centimetres (cm) Millimetres (mm)

Angles are measured in Degrees, 90°

Most used measurements Centimetre = 10mm $cm \times 10 = mm$ Right Angles = 90° $\frac{1}{100^{\circ}}$



Aesthetics: What does it look like?

Client: Who is it for?

Environment: How does it impact?

Safety: How safe is it?

Size: How big is it?

Function: What is it used for?

Material: What is it made from?

Design specification: is what your product must have in order to meet the clients needs

Design brief: outlines what you are going to make.



Year 9 Drama - Term 1A: Bertolt Brecht - Epic Theatre



Bertolt Brecht was born in Germany in 1898 and died at the age of 58 in 1956. He is one of the most famous people in the world of theatre. He was a playwright, a director, an actor and developed many ideas and theories about theatre and acting which means he is considered to be a theatre practitioner. His plays are still performed around the world and his theories are still used in the performances of other plays.

WHERE AND WHEN

After serving as a medic in the First World War and appalled by the effects of the war, he went first to Munich and then to Berlin in pursuit of a career in the theatre. That period of his life came to an end in 1933 when the Nazis came to power in Germany. Brecht fled and during this period the Nazis removed his citizenship, so he was a stateless citizen. By the time of his death in 1956, Brecht had established the **Berliner Ensemble** and was regarded as one of the greatest theatrical practitioners.

WHAT

Brecht made many changes to the theatre of his day. He disagreed with the fact that an audience should be swept along with the emotion of a production. Before Brecht, the theatre of the day would use realistic story lines and high emotion, it would expect the audience to believe in the characters and the situations.

Brecht felt that the theatre should be something that made the audience feel more than simple emotion -he wanted it to make the audience think or learn something and to make a change for the better as a result.





THE V EFFECT

Songs-to remind the audience that they are watching a performance and to change the tone or atmosphere.

Spass-fun -making the audience laugh and then making them question why they are finding serious things funny.

Design-The audience were reminded that they were in a theatre watching a performance as the house lights were left on, all of the set was visible from the start and the actors did all of the set changes. Costumes were also changed on stage and the actors played the instruments used for the songs on stage.

Placards-Signs were held up to tell the audience the title of the scene and even what was going to happen in them, this was to take away suspense and emotion and allow the audience to think about the scene instead.

Direct address - The actors speak directly to the audience, sometimes in the form of questions, this reminds the audience that what they are seeing isn't real and forces them to think about what they are watching. This is called 'breaking the fourth wall'.

Multi role-play -The actors play more than one part in the performance, changing characters in front of the audience's eyes and reminding the audience that they are actors and not the characters. This technique also stops the audience from becoming too emotionally involved with the characters.

Representational costume -The actors would simply put on one item of clothing, or an accessory such as a hat or glasses to represent that they were a particular character -they didn't try to 'become' the character.

Year 9 Food - Term 1A: Food safety/hygiene and carbohydrates

Food hygiene and safety

FATTOM is a mnemonic device that is used to describe the six aspects that contribute to the growth of foodborne pathogens.

Food - Microorganisms need a constant source of nutrients to survive. Moist, protein-rich food are potentially hazardous (meat, seafood, eggs, dairy, cooked rice).

Acidity - Bacteria grow best in a slightly acidic environment (pH 4.6 - 7.5).

Time - Food should not be in the temperature danger zone for more than two hours.

Temperature - Bacteria grow best between $5^{\circ}C$ to $63^{\circ}C$ the 'temperature danger zone'.

Oxygen - Almost all foodborne pathogens are aerobic, that is, requiring oxygen to survive and grow.

Moisture - Water is essential to bacterial growth. Microorganisms grow faster in foods that are moist and not dry (meat, dairy)

Scan the QR codes to watch a video about food safety and complete your homework guiz.

Key vocabulary	Definition			
Aeration	Air is trapped in a mixture. Fat and sugar creamed together traps air.			
Amino acids	The basic components of proteins, each has a specific function in the body.			
Blind baking	Baking a pastry case without the filling to ensure it is properly baked.			
Carbohydrate	A macronutrient that supplies energy and essential dietary fibre.			
Fat	A macronutrient which supplies a concentrated source of energy (1g = 9kcals)			
Obesity	Being very overweight. A body mass index of over 30 is classed as obese.			
Protein	A macronutrient made up of building blocks called amino acids.			
Roux	A mixture of melted fat and flour, which is used as a base of a sauce			
Shortening	When fats give biscuits, shortbread and pastry a crumbly texture.			
Symptom	ymptom Sign of an illness, e.g., food poisoning symptoms of diarrhoea/vomiting/nausea			







Year 9 Food - Term 1A: Food safety/hygiene and carbohydrates

Cooking term - Gelatinisation

Starch has a very useful property which is to thicken mixtures.

The process in which moist heat is applied to starch grains, which swell, increase in size and then break open. This releases amylose which thickens the mixture around boiling point. Stirring is needed to prevent lumps forming. Starches can be made to make sauces, custards, gravies, batters and glazes.





Carbohydrates

Exist in many forms; they can be divided into three groups: sugars, starches and dietary fibre. Sugars are the simplest form of carbohydrate, starches and dietary fibre are more complex. Examples of starchy carbohydrates are below.

Scan the QR code to watch a video about this section of the Eatwell guide.



Cooking term - Baking blind

A pastry base is baked prior to the filling being added.

- · Pastry is rolled out.
- · The baking tin is lined with pastry.
- · Baking parchment placed on top for the baking beans to sit on.
- Even layer of baking beans added to prevent the pastry rising.
- · Pastry is baked to seal before adding the filling.







Year 9 Music - Term 1A: Decades - Keywords

50s - Rock and Roll

shook America.

Music in the 1950s was dominated by the birth of rock and roll.

Rock and roll was a powerful new form of music that combined elements of rhythm and blues

(R&B), pop, blues, and hillbilly music to create a sound that truly

60s - The British Invasion

On February 7 the **Beatles** arrived in New York for their inaugural U.S. visit, and two days later played on The Ed Sullivan Show to hysterical response and record viewership, thereby effecting a cataclysmic cultural shift and triggering a musical movement that would come to be known as the **British Invasion**.



70s - Disco

Disco is a genre of dance music and a subculture that emerged in the 1970s from the United States' urban nightlife scene. Its sound is typified by four-on-the-floor beats, syncopated basslines, string sections, horns, electric piano, synthesizers, and electric rhythm guitars.



Synth-pop (also known as electropop or technopop) is a music genre that uses the synthesizer as the dominant musical instrument. What does synth pop sound like? Early synth-pop has been described as "eerie, sterile, and vaguely menacing", using droning electronics with little change in inflection. Common lyrical themes of synth-pop songs were isolation, urban anomie, and feelings of being emotionally cold and hollow.

80s

90s - Britpop

Britpop, movement of British rock bands in the 1990s that drew consciously on the tradition of melodic, guitar-based British pop music established by the Beatles. Like nearly all musical youth trends, Britpop was about songs, guitars, jackets, and attitudes—though not necessarily in that order. Lyrics written by Britpop bands were made to be relevant to young people in Britain, and the songs released during this movement embraced and emphasised 'Britishness'. Britpop sparked a period of greater pride in the culture of the United Kingdom, in a cultural movement known as Cool Britannia.



Year 9 Physical Education - Term 1A

Skeletal System: Joints

Practical Sports

Netball Positions - Find out what the role of each is.

Goal Shooter Goal Defence
Goal Attack Goal Keeper

Wing Attack Centre

Wing Defence

Badminton Shots - When would you use each one?

Overhead Clear Underarm Clear Dropshot

Dropsnot Smash

Football - Find out what these terms mean:

Low-block High-block Third-person run

Gymnastics - Find videos to watch the following vaults:

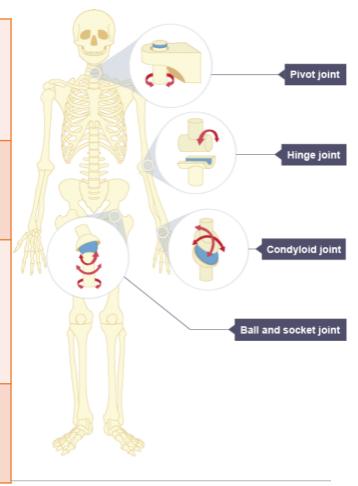
Straddle vault Through vault Head spring Hand spring Synovial joints (freely movable joints) allow us the free movement to perform skills and techniques during physical activity.

Hinge - these can be found in the elbow, knee and ankle. Hinge joints are like the hinges on a door, and allow you to move the elbow and knee forwards and backwards.

Ball and socket - these types of joint can be found at the shoulder and hip and allow movement in almost every direction.

Pivot - this joint can be found in the neck between the top two vertebrae. It allows only rotational movement such as moving your head from side to side as if you were saying 'no'.

Condyloid - this type of joint is found at the wrist. It allows you to flex and extend the joint, and move it from side to side.





Year 9 Spanish - Term 1A: Mi familia y las relaciones

•		<u> </u>			_
Los miembros de	z mi familia	Opiniones		Adjectivos	
El padre	Dad	En mi opinión	In my opinion	Contento/a	Нарру
La madre	Mum	Creo que	I believe that	buen sentido del humor	Good sense of humour
El hermano	Brother	Pienso que	I think that	Divertido /a	Fun
La hermana	Sister	Me parece	It seems to me that	generoso/a	Generous
El abuelo	Grandad	A mi ver	From my way of seeing it	egoísta	Selfish
La abuela	Grandma	(no) Estoy de acuerdo	I agree with the idea that	Travieso /a	Naughty Cheerful
El tío	Uncle	con la idea de que Es verdad que	Its true	alegre Honrado /a	Honourable
La tía		Es la culpa de	Its the fault of	Especial	Special
_	Auntie	Por un lado por otro	One the one hand	cariñoso /a	Caring
El primo	Cousin (boy)	lado		Abierto /a	Open
La prima	Cousin (girl)	1.000		Triste	Sad
El hijo	Son	Me llevo bien con	I get on well with	comprensivo /a	Understanding
La hija	Daughter	Discuto con	I argue with	tradicional	Traditional
El padrastro	Stepdad	Peleo con	I fight with	Sincero /a	Sincere
La madrastra	Step mum	Me ayuda	He / she helps me	feliz	Нарру
El hermanastro	Step brother	Me apoya	He / she supports me	Hablador /a	Chatty
La hermanastra	Step sister	Me escucha	He / she listens to me	Serio /a	Serious
Los padres	Parents	(No)me critica	He / she does (not) criticises me	Amable	Likeable
Los hermanos	Siblings	Adverbos de frecuencia		trabajador /a Formal	Hard working Formal
Los abuelos	Grandparents	Nunca	Never	Perezoso /a	Lazy
Los tios	Uncles and aunties	Siempre	Always	decepcionante	Deceiving
Los primos	Cousins	Muchas veces	Many times	Activo / a	Active
Los hijos	Children	A veces	Sometimes	parecido/a similar	Similar
203 111303	Ciliaren	A menudo Generalmente	Often	orgulloso /a	proud
AA:	AA (aina lan)	Con frecuencia	Generally		l'
Mi	My (singular)	De vez en cuando	Frequently		
Mis	My (plural)	Raramente	From time to time Rarely		
			Once a week		
Se llama	Is called	Una vez a la semana Dos veces al mes	Twice a month		
Se llaman	Are called	DOS VECES UI IIIES	Twice a month		
Este es	This is (masculine)	mucho	A lot		
Esta es	This is (feminine)				
1	1			1	I



Notes



Notes





St Cuthbert's Catholic High School

Live life in all its fullness