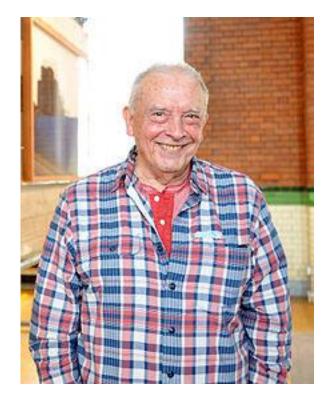




rm	
	MORE THAN
1	orm





"The best advice I ever got was that knowledge is power and to keep reading." David Bailey

(research 10 facts about David Bailey)

Year 8 Knowledge Organiser: Term 2A

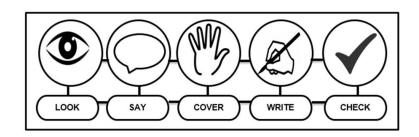
Instructions for using your Knowledge Organiser

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 8 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										



Poetry is literary work in which the expression of feelings and ideas is given intensity by the use of distinctive style and rhythm; poems collectively or as a genre of literature.

Key words:	Poetic techniques:
 Feelings/emotions 	 Simile - comparing two things using as or like.
 Perspective 	 Metaphor - describing something to be something else.
• Message	• Personification - giving something non human, a human quality.
 Interpretation 	• Alliteration - a series of words starting with the same latter/sound.
 Analyse 	 Rhyme - two or more words that have the same sound at the end.
• Infer	• Stanza - a verse within poetry.
	• Structure - how a poem is put together.
• Theme	



When writing about poetry remember to:

Use evidence:

Use precise evidence to support your ideas and try to embed your quotes where possible.

Use specific language when zooming in:

Break down longer quotes to explore individual words and techniques.

- This noun/verb/adjective implies
- This metaphor gives the impression that
- The use of simile here shows

Tentative language when zooming out:

Use modal verbs like 'might' or 'could' to build a more critical argument.

• The poet might be attempting to.....

<u>Be as specific as possible about how the poetic techniques affect</u> <u>the reader</u>.

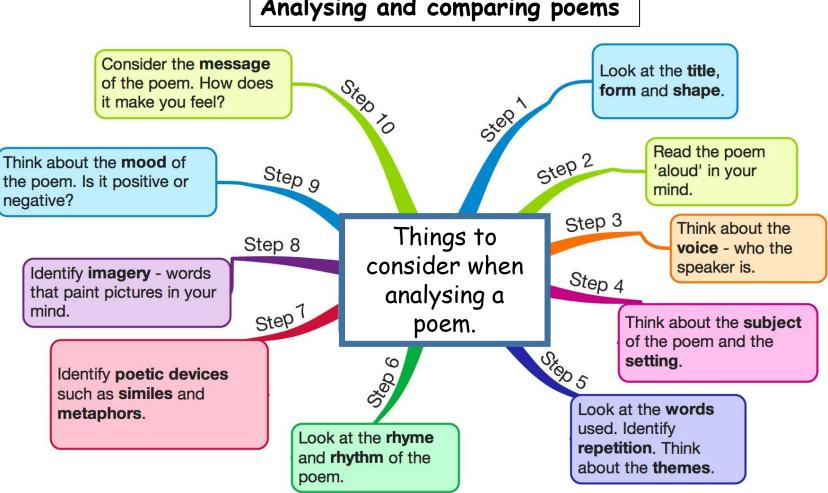
Avoid using phrases like:

- 'Gives the reader an image'
- 'Sticks in the reader's head'
- 'Has an effect on the reader'

What is Poetry?

- a type of <u>literature</u> that expresses ideas, <u>feelings</u>, or tells a <u>story</u> in a specific form
- the art of <u>expressing</u> one's thoughts in <u>verse</u>
- Uses few words to convey it's message
- Arouses our <u>emotions</u>
- Poems use <u>imagery</u> or figures of speech to explain feelings or to Create a mental picture or idea
- Suggest <u>action</u> or <u>mood</u>
- Many poems have a specific <u>rhyme</u> <u>scheme</u> using lines and stanzas
- lphaPoems can rhyme or not rhyme









Comparing poems:

Consider the differences and similarities -

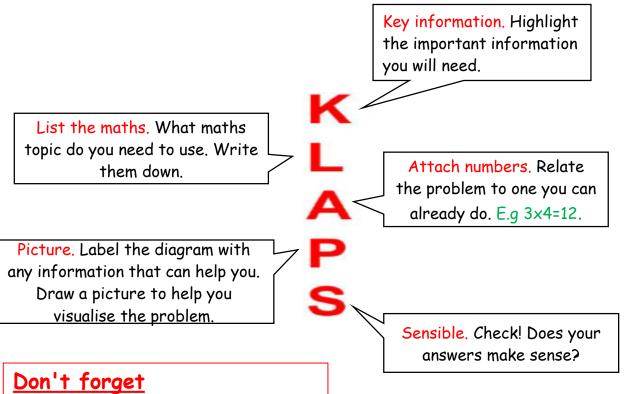
- Do the poems use the same techniques?
- Do the poems share the same feelings?
 Themes? Ideas?
- Are they the same type of poem?
- Are they structured in the same way?

Similarities:	Differences:
Likewise	However
Similarly	On the other hand
In the same way	Whereas
As well as	Although
	In contrast



Year 8 Maths - Term 2A

TOPIC - Problem solving at St Cuthbert's.



Keywords:

Sequence	A particular orders in which related things follow each other
Generate	Create a sequence of items by following a particular mathematical sum
Squared	A number multiplied by itself
Percentage	A proportion or share in relation to the whole value
Term	A single number or variable, or several numbers or variables
Indices	How many times to use the number in a multiplication (singular form is index)
Cubed	The number you get when you multiply the square of the number by itself
Equivalent	Something like or equal to something else in number, value or meaning



Always show your working out Never round half way through a

question

Year 8 Maths - Term 2A

Sequences

A sequence is a list of things (usually numbers) that go in order, and there is a rule to determine what the next one in the pattern will be.





In an Arithmetic sequence, the different between each of the terms is constant.

1, 4, 7, 10, 13, 16, 19, 22, 25...

This sequence has a difference of 3 between each number

<u>Nth Term</u> The sequence below has the general rule (Nth term) of <u>3n-2</u>

1, 4, 7, 10, 13, 16, 19, 22, 25...

Because the constant difference is 3, we know that it relates in some way to the 3 times table, and then we need to -2, to adjust to the sequence given.

If we know the Nth term we can generate any term we need, by submitting a number for n

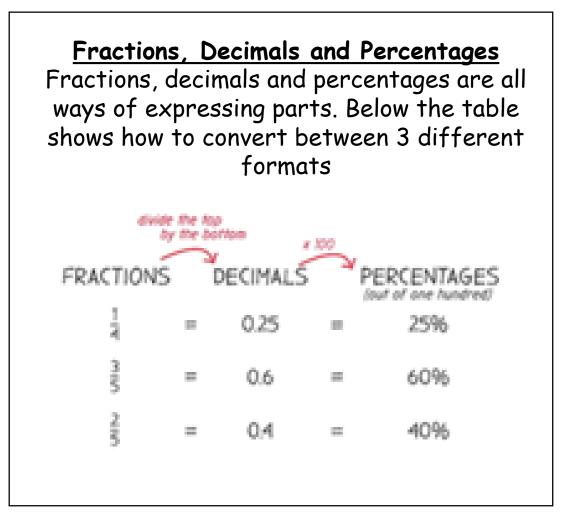
So the 100th term in 3n-2 would be:

3 x 100 - 2 = 298

Indices

To manipulate expressions involving indices we use rules known as laws of indices. The laws should be used precisely as they are stated-do not be tempted to make up variations of your own.

Rule	Example
$a^m \times a^n = a^{m+n}$	$2^5 \times 2^3 = 2^8$
$a^m \div a^n = a^{m \cdot n}$	$5^7 \div 5^3 = 5^4$
(a ^m) ⁿ = a ^{m×n}	$(10^3)^7 = 10^{21}$
a ¹ = a	17 ¹ = 17
a [°] = 1	34 ⁰ = 1
$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$	$\left(\frac{5}{6}\right)^2 = \frac{25}{36}$
$a^{m} = \frac{1}{a^{m}}$	$9^{-2} = \frac{1}{81}$
a [*] = ∛a*	49 ^{1/2} = ∛49 = 7



<u>Key Facts</u>

This table shows some of the key equivalencies that you will need to know. Notice that 1/3 is a recurring decimal, and so the equivalent percentage is also written as a recurring number

Decimal	Percentage	Fraction
0.5	50%	1 2
0.25	25%	14
0.75	75%	3 4
0.2	20%	15
0.1	10%	1 10
0.3	33.3%	1 3



Year 8 Maths - Term 2A

Using a Calculator:

Convert 62% to a decimal = 0.62

Then multiply by 350

Both methods are valid, but remember you might be asked to work out a percentage of an amount on a Non Calculator Paper, and some questions might be too complex and a calculator will come in handy!

<u>Percentages</u>

When finding the percentage of an amount by hand, there are 3 key facts that you need:

Percentage	Equivalent Fraction	To find %
50%	$\frac{50}{100} = \frac{1}{2}$	Divide by 2
10%	$\frac{10}{100} = \frac{1}{10}$	Divide by 10
1%	1 100	Divide by 100

Using this we can now find out any % Find 62% of 350

> 50% = 175 10% = 35 1% = 3.5 2% = 7

Add these values together to make 62% = 217

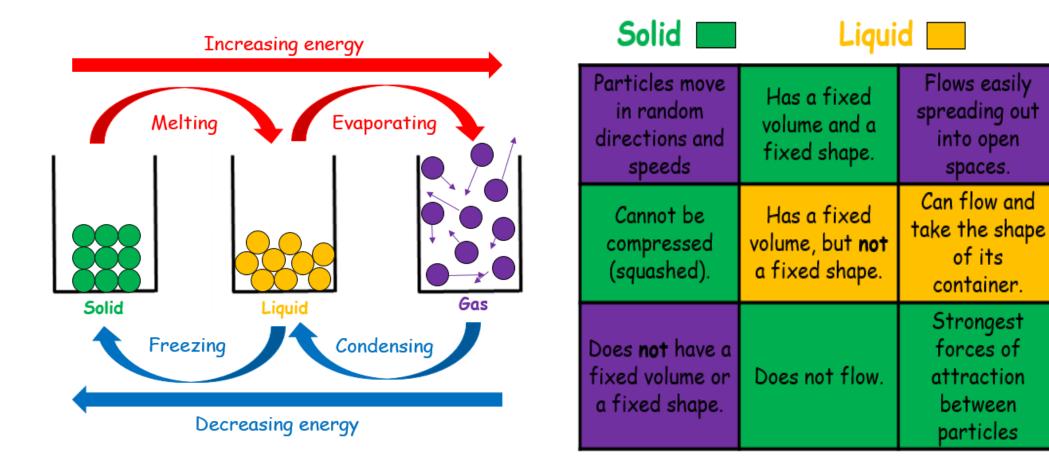


Key Words

Solid	State of matter where the particles are packed closely together in fixed positions.		
Liquid	State of matter where particles are close together in a random arrangement.		
Gas	State of matter with large volumes of space between particles.		
Melting	Change of state from a solid to a liquid.		
Evaporation	Change of state from a liquid to a gas.		
Freezing	Change of state from a liquid to a solid.		
Condensation	Change of state from a gas to a liquid.		
Sublimation	Change of state from a solid directly to a gas.		
Deposition	Change of state from a gas directly to a solid.		
Volume	The amount of space that an object or substance occupies.		
Thermal energy store	Energy stored in an object due to its temperature.		
Kinetic energy store	Energy stored in an object due to its motion.		



States of Matter





Gas 🗾

Can be easily

compressed

(squashed)

Particles

vibrate in a

fixed position.

Weakest

forces of

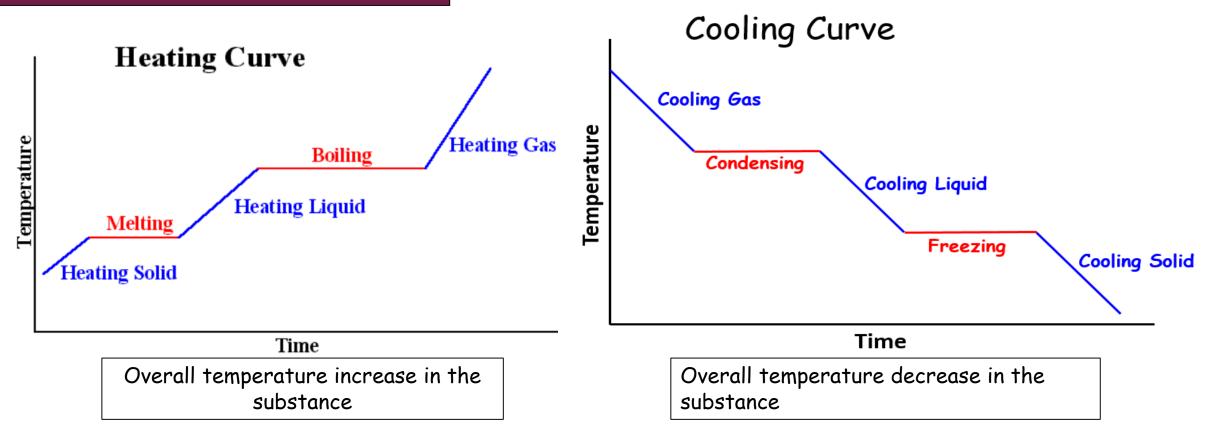
attraction

between

particles

of its

Year 8 Science - Term 2A



The blue lines indicate where the change in energy store is being used to change the temperature of the substance. The red lines indicate where the change in energy store is being used to change the state of the substance.



<u>Methods of Heating</u>

Method	Definition	Diagram	Example
Conduction	The transfer of heat by direct contact and vibrations from a hotter object to a cooler one.		Touching a hot saucepan and burning your finger.
Convection	The transfer of heat by fluid motion from a hotter object to a cooler one.	Warmer water rises	A radiator heating a room on a cold day.
Radiation	The transfer of heat by waves from a hotter object to a cooler one.	Sun Space Earth radiation	The sun warming us in the morning.



Types of energy	Store or transfer	Description of store or method of energy transfer	
Gravitational	Store	Any object above ground level has energy in this store.	
Thermal	Store	All objects have energy in this store.	
Kinetic	Store	An object that is moving stores this energy.	
Chemical	Store	If a chemical reaction releases energy then it's in this store.	
Nuclear	Store	The nucleus of an atom releases energy from this store.	
Elastic	Store	Any stretched object has energy in this store.	
Electrostatic	Store	Two objects that have charges have energy in this store.	
Magnetic	Store	Two magnets have this store of energy.	
Radiation	Transfer	This happens when energy is transferred by wave.	
Electrical	Transfer	This happens when a moving charge does work.	
Heating	Transfer	When energy is transferred from different temperature objects.	
Mechanical	Transfer	This occurs when force does work on an object.	



Year 8 Science - Term 2A

Energy Efficiency

The energy efficiency of a device can be calculated using the following formula:

Useful Output Energy Total Input Energy Energy Efficiency = -Energy Efficiency = $\frac{\text{Useful Power Output}}{\text{Total Power Input}}$

Equation for Specific Heat Capacity

$E = m \times c \times \theta$

- E is the energy transferred in joules, J
- m is the mass of the substances in kg
- c is the specific heat capacity in J / kg °C
- θ ('theta') is the temperature change in degrees Celsius, °C

	Key Words	
	Specific heat capacity	Energy needed to raise the temperature of 1kg of a substance by 1°C
	Efficiency	The proportion of energy converted usefully
	Mass	How much matter an object is made of
St Cuthbert's Catholic High School	Power	The rate of energy transfer



Year 8 Religious Education - Term 2A: What was Jesus' message for us?

Big Questions:

- What do we learn about God, and ourselves from Jesus' parables?
- What was Jesus' message in the Sermon on the Mount? How can it be lived out by us?
- How did Jesus treat the marginalised in society, and how can we follow his example?
- Why and how was Jesus tempted, and why is this story important today?

		Section 1;					
Incarnation 'made into flesh' – Jesus is the incarnation into flesh / a human		nation = God made	Jesus taught in parables. These are earthly stories with a heavenly meaning. Jesus examples and situations that his audience would have been familiar with. The para teach Christians about Jesus and also about humans and our relationships with Goo				
miracles	Events that cannot be explained by science; they are believed to be the work of God. Jesus performed many miracles.		each other. <u>Section 2;</u> A very important piece of teaching of Jesus' is in Matthew's Gospel. It is called the				
parable	parable An earthly story with a heavenly meaning in parables.		aning. Jesus taught	Sermon on the Mount. Jesus sets out how we should treat other people - his teaching very challenging.			
ministry	The time Jesus spe	ent teaching, prea	aching and healing	The Sermon on the Mount also contains the Beatitudes. This word comes from the Latin			
Lent	Lent The time in the liturgical year when Christians remember when Jesus was tempted in the desert. It is the 40 days which end on Holy Thursday		'beatus' meaning blessed. They explain which groups of people are blessed, or close to God- some of them are surprising. This is when he gives his disciples the Oun Eather THE LORD'S PRAYER				
Sermon on the Mount	Sermon on the Wide ranging teaching of Jesus, found in			This is when he gives his disciples the Our Father /Lord's Prayer. <u>Section 3;</u>	Our Father, Who art in heaven, Hallowed be Thy Name.		
Complete the learning homework for each week; work in your yellow bookJan 22nd 2024Section 2 & SOWA 2 and 3		Section 2 & SOWAA 2 and 3	Jesus is a really important role model for Christians. Jesus spent time with the outcasts of society – the marginalised people. Today Christians try follow his ex				
Jan 8th 2024Key words and definitionsJan 29th 2024Section 3		Section 3	After his baptism, and before he began his ministry the gospels tell us the Jesus s time in the desert. During this time he was tempted. The 'temptations of Jesus' te				
Jan 15 th 2024 Section 1 & SOWAA 5 th Feb 2024 SOWAA 4 and 5 1		a lot about what Jesus was like, and what his mission was. It is a really important stor for Christians today, which is remembered during the period in the liturgical year call					
				┘ 'lent'.	Page 20		





Sources of Wisdom and Authority (SOWAA)

(1) The parable of the sheep and the goats; Matthew 25: 31-46

The parable of the lost son; Luke 15:11-32

this son of mine was dead and is alive again; he was lost and is found

The parable of the Good Samaritan; Luke 10: 25-37 'love your neighbour as yourself'

(2) The Beatitudes: Matthew 5: 3-12 Blessed are ... those who mourn for they shall be comforted'

(3) The Sermon on the Mount; Matthew 5-7 "Do not think that I have come to abolish the Law or the Prophets; I have not come to abolish them but to fulfill them....

...You have heard that it was saidBut I say to you

"This, then, is how you should pray: 'Our Father in heaven, hallowed be your name,

.....When Jesus had finished saying these things, the crowds were amazed at his teaching, ²⁹ because he taught as one who had authority, and not as their teachers of the law.

(4) Jesus is tempted ; Luke 4: 1-13 And Jesus, full of the Holy Spirit, returned from the Jordan and was led by the Spirit in the wilderness for forty days, being tempted by the devil.....And Jesus answered him, "It is said, 'You shall not put the Lord your God to the test.'

(5) Christ reveals himself as God's Servant, totally obedient to the divine will.....
 By the solemn forty days of *Lent* the Church unites herself each year to the mystery of Jesus in the desert.
 Catechism





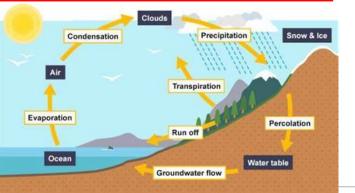


Year 8 Geography - Term 2A: Rivers

Key Vocabulary...

River	A river is a natural flowing watercourse, usually freshwater, flowing towards an ocean, sea, lake or another river.	
Long Profile	The shape of the river and it's gradient from the source to the mouth.	
Erosion	Erosion is the process that breaks things down.	
Transportation	The process of carrying or moving sediment downstream.	
Deposition	Dropping or settling of sediment.	
Flood	Flooding occurs when the river bursts its banks overflowing onto the area surrounding the channel.	
Flood Defenses	Management strategies used to protect people and land from flooding.	

Water Cycle

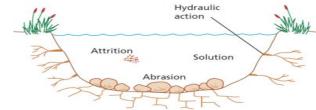




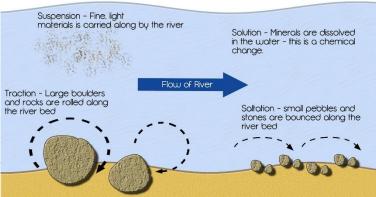
St Cuthbert's Catholic High School Live life in all its fullness

4 Processes of Erosion

Hydraulic action	This is when the force of water erodes softer rock.
Abrasion	This is when large pieces of bedload material wear away the river banks and bed.
Attrition	This is when the bed load itself is eroded when sediment particles knock against the bed or each other and break, becoming more rounded and smaller.
Solution	This is when finer sediment is dissolved and eroded by the minerals in the water.

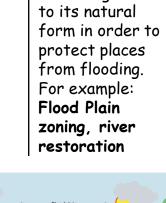


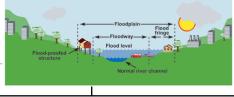
4 Processes of Transportation



structures to change the course of the river in order to prevent it flooding. For example: Dams, Levees, Channel Straightening

Using man-made





The floodplain

Activity: Preparing for a flood is vital to protect people. Create an information leaflet describing the best way for people to prepare for a flood. Why is it more important than ever for people to have this knowledge?

Flood Defences...

Landforms

Waterfall	 Formation of a waterfall: The soft rock erodes more quickly, undercutting the hard rock. The hard rock is left overhanging and because it isn't supported, it eventually collapses. The fallen rocks crash into the plunge pool. They swirl around, causing more erosion. Over time, this process is repeated, and the waterfall moves upstream. A steep-sided gorge is formed as the waterfall retreats.
Meander and oxbow lake	A meander is a bend in the river. Meanders usually occur in the middle or lower course and are formed by erosion and deposition . As the river flows around a meander, the fastest flow is around the outside of the bend. This creates erosion on the outside and deposition on the inside of the bend, which means that the meander slowly moves. If the meander moves so much that the bend becomes very large, the course of the river may change. The meander may be cut

ander, the ide of the he outside the bend. slowly moves. that the ourse of the may be cut off and deposition fills the section that no longer flows. This forms an **ox-bow** lake.

Task...

Define the water cycle.

Name the 4 types of precipitation.

Explain the changes in a river as it moved downstream. What effect will impermeable surface have on the risk of flooding?

Task...

- 1. Using the diagram of floodplain zoning. Discuss the advantages and disadvantages of this type of soft engineering.
- 2. Using the diagram below identify and state the advantages and disadvantages of this type of hard engineering.



Question: "Hard engineering flood management strategies are the most effective" Evaluate this statement

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 8 History - Term 2A: English Civil War



Charles I became King of England in 1625 following the death of his father, James I. He married a French princess, Henrietta Maria. This caused concern among some MPs (Members of Parliament), who believed Charles had plans to make England a Catholic country again. England had been a Protestant country since the late 1500s, so this represented another big change after many years of religious upheaval. Charles also believed in the Divine Right of Kings. This was the belief that he had been put in charge of the country by God, so therefore did not need assistance from Parliament in order to make decisions.

The war was fought between two armies:

- •The Parliamentarians, or 'Roundheads'. They were given this name because they had much shorter haircuts compared to the long, curly wigs worn by Charles and his supporters.
- •The Royalists, or 'Cavaliers'. This name comes from the French term *chevalier*, which refers to a knight who rides a horse. The Parliamentarians originally used this term as an insult to the Royalists, but they eventually began to use it to refer to themselves.

There was a split in the country, with people supporting both sides.

Key word	Definition		
Civil War	A war between citizens of the same country.		
Tyranny	Cruel and unfair government or rule.		
Regicide	The action of killing a king.		
Execution	the carrying out of a sentence of death on a judged person.		
Religion	An organised system of beliefs, ceremonies, and rules used to worship a god or a group of gods.		
Protestantism	A form of Christian faith and practice. It began in northern Europe in the early 16th century and was adapted by England under Henry VIII.		
Catholicism	Roman Catholicism is the oldest and largest branch of Christianity. The history of the Catholic church begins with the start of Christianity 2,000 years ago.		
Puritanism	An extreme form of Protestantism. A religious movement in the late 16th and 17th centuries that wanted to 'purify' and remove any lasting parts of Catholicism from the church.		
Parliament	A group of elected individuals who meet to discuss, create and pass legislation (laws).		
Rebellion	Opposition (standing up to) to somebody or something in authority.		
Revolution	A change in the way a country is governed/led. A significant change or development in a situation.		



The Battle of Edgehill, 1642 The first time the Royalist and Parliamentary forces directly fought each other was at Edgehill, in Warwickshire. Neither side won a convincing victory. Both sides mainly had inexperienced soldiers, which made it difficult for anyone to win the war quickly.

1642 - 1645 Charles had some success in the first two years of the war, but the momentum changed when Parliament decided to form a more professional army. Thomas Fairfax became commanderin-chief of the troops and Cromwell was in charge of the cavalry.

The Battle of Naseby, 1645 By this time, the Parliamentarians has assembled the New Model Army Thomas Fairfax led this new professional

Model Army. Thomas Fairfax led this new, professional army at Naseby. The Royalists were led by Charles and Prince Rupert.

Naseby was a decisive victory for Parliament. The Royalists lost over 5,000 men. Much of their equipment and weapons were also captured. The extent of the defeat meant Charles did not have the resources to put up effective resistance. Charles fled to seek support from the Scots, but was handed over to Parliament in exchange for £100,000 in January 1647.



In 1649, King Charles I was put on trial for treason. He was found guilty and sentenced to death. Even though Charles had fought against Parliament, only 59 commissioners signed Charles' death warrant.

	 Following the defeat of King Charles I in the English Civil Wars, and later his trial and execution, Oliver Cromwell became 'Lord Protector' in 1653. Cromwell was a Puritan, a strict Protestant, and made significant changes based on his 	0
St Cuthbert's Catholic High School Live life in all its fullness	 beliefs. Following Cromwell's death, there was a growth in support for a return to monarchy. This led to the Restoration, which saw Charles II become king of England. 	Page 25

The Commonwealth



The Commonwealth is made up of 54 independent countries working together to pursue common goals that promote development, democracy and peace.

The Commonwealth spans the globe and includes both advanced economies and developing countries. It encompasses Africa (19 countries), Asia (8), the Caribbean and Americas (13), Europe (3), and the Pacific (11).

All members have an equal say, regardless of their size or economic status. This ensures that even the smallest countries have a voice in shaping the Commonwealth. In the past two decades, countries which have joined include Mozambique, Cameroon and Rwanda.

If you were a world leader write down 5 things you would prioritise, how you would do this and why.



Resources from: https://thecommonwealth.org/sites/default/files/inline/Fast%20Facts%20on%20the %20Commonwealth_updated18052020%20-%20final_0.pdf https://kids.britannica.com/kids/article/European-Union/353111#:~:text=The%20European%20Union%20(EU)%20was,and%20the%20ri ghts%20of%20citizens.

Year 8 PD - Term 2A: Citizenship

The European Union

The European Union (EU) was formed to bring together the countries of Europe. The EU helps its member countries with issues such as trade, security, and the rights of citizens. By 2013 the group had 28 member countries. However, in 2016, one member the United Kingdom—voted to leave the EU. The country officially left the union on January 31, 2020.

After World War II the countries of western Europe wanted to avoid future wars. Some leaders thought that having their countries work together would help.

The EU currency, or form of money, is called the euro. It was introduced in 1999. Most member countries switched from their own currencies to the euro.

Some countries got into lots of debt and the other EU countries had to help to pay for this debt. Measures were put into place to prevent this from happening again.

In June 2016, 52% of the British public voted to leave the EU. Britain had to negotiate a deal and they eventually left on 31st January 2020 under Boris Johnson's leadership.



St Cuthbert's Catholic High School Live life in all its fullness Watch this - Brexit explained.



Tax:

Taxes are ways that the government can collect money from its citizens to pay for things that the people need, like schools and roads. We pay tax on the things we buy and we contribute when we start to earn money.



Year 8 Art - Term 2A: Cubism





Analytical Cubism

Analytical Cubism - 1908-12—was about breaking down an object (like a bottle) viewpoint-byviewpoint, into a fragmentary image .The subject was broken down into flattened planes and sharp angles with a limited colour palette.



Cubism is a style of painting that was developed in the early 1900s. Cubist paintings show objects from many angles at once. Three main artists, Pablo Picasso and Georges Braque, and Juan Gris developed Cubism. They believed that painters should not just present realistic views of subjects. These painters presented artworks which contained many viewpoints on the same 2D picture plane. This revolutionised the Art world and changed the idea of what art 'should look like' and what it should be about. The focus now moving away from realistic representation.



Cubist Sculpture

As well as painting in the 'Cubist style', Picasso also created sculptures from his explorations of Still Life objects. Here the Cubist influence can clearly be seen in his cardboard sculpture of a guitar. This is something that we will be looking at further in class.



Year 8 Art - Term 2A: Cubism



Synthetic Cubism

From around 1912 **Braque**, **Picasso**, and **Gris**, started to use simpler shapes and lines and brighter colours in their artworks. They also began to add **textures** and patterns to their work, often collaging **newspaper** or other patterned paper directly into their paintings. This approach was called **synthetic cubism**.

Influences

The invention of photography in 1839 had a major impact upon the art that was made from that point on. Artists were no longer required to capture a likeness of a person (portrait) and everyday scenes could now be recorded by a camera.

So artists moved away from realistic representations and towards more abstract styles. **Paul Cezanne** was a major influence on the three main Cubist artists, **Pablo Picasso**, **Georges Braque** and **Juan Gris**. He believed that the world could be simplified down into basic shapes. As can be seen in these two landscapes.





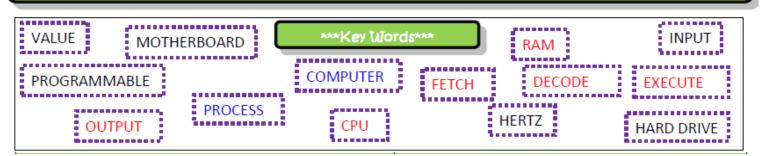


Word	Meaning		
Abstract	Art that does not attempt to represent external reality, but rather seeks to achieve its effect using shapes, colours, and textures.		
Geometric	Art which uses regular lines and shapes.		
Simplify	To make something simple and less complicated.		
Repetition	Anything that is repeated.		
Analytical	Looking carefully at something to see all of it's parts.		
Synthetic	To synthesize or bring together different elements .		



Year 8 Computing - Term 2A: Hardware & Software

Computer Hardware



1. Parts of a computer you need to know

CPU – The 'brain' of the computer. It does all the processing – all the thinking!

RAM – This is where programs are loaded when they are open – think of this as the CPU's *'work station'*.

Hard Drive (Hard Disk) – This is the long term storage for programs and files.

Input Device – A device which sends data to the CPU

Output Device - A device which receives information from the CPU

2.What you need to know about the CPU

Stands for Central Processing unit. It is placed on the motherboard.

A computer system could not function without one.

The CPU will FETCH instructions, DECODE instructions, EXECUTE

instructions.

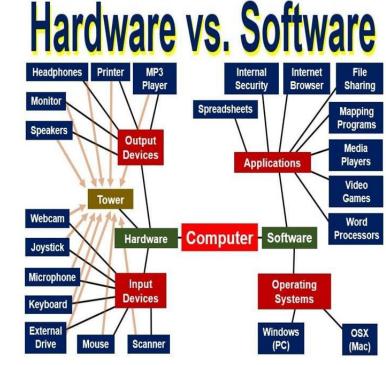
The speed of the CPU is measure in HERTZ. MEGAHERTZ and GIGAHERTZ

Software



What is hardware and software? Hardware is the physical parts of the computer and software is the programs that run on a





What is an Embedded System???

An Embedded system is a microprocessor/microcontroller based smart system, constituted of both hardware(electronics must) & software (programming) and designed to perform a set of tasks.



Year 8 Design Technology - Term 2A: Electronics

Key vocabulary	Definition	
Standard components	An individual part or component, manufactured in thousands or millions, to the same specification.	
Microcontroller	A compact integrated circuit designed to govern a specific operation in an embedded system.	
Automation	The use of technology to perform tasks with reduced human assistance.	
Integrated circuit (IC)	Is an electronic device comprising numerous functional elements such as transistors, resistors, condensers, etc. on a piece of silicon semiconductor.	
Alloy	Is a metallic substance composed of two or more elements, as either a compound or solution.	
Iterative design	A design methodology based on a cyclic process of prototyping, testing, analysing, and refining a product or process.	
Anthropometrics	The systematic measurement of the physical properties of the human body.	
Ergonomic	Relating to or designed for efficiency and comfort in the working environment.	
Technology push	When research and development in new technology, drives the development of new products.	
Non-finite resource	Are found naturally and can be replaced. Examples include wood, cotton and renewable energy sources such as solar and wind.	

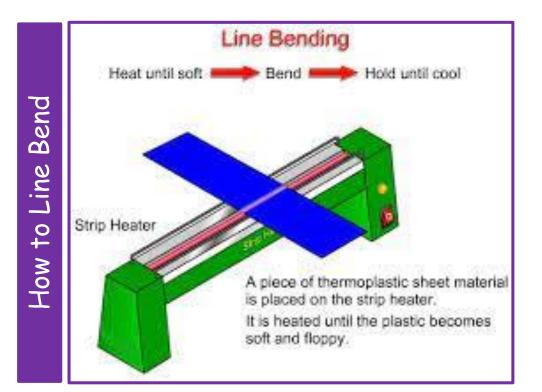
<u>Electronics</u> Scan the QR code to watch a tutorial about Electronics.

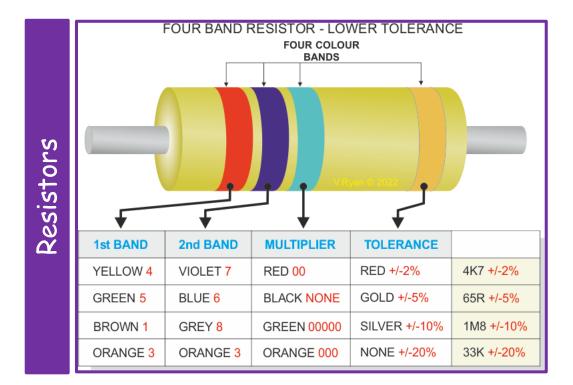


A	is for	Aesthetics
C	is for	Cost
C	is for	Customer
E	is for	Environment
S	is for	Size
S	is for	Safety
F	is for	Function
M	is for	Material



Year 8 Design Technology - Term 2A: Electronics





Your Design Specification produced a list of "Goals" or "Target" that you wanted your Final Solution to achieve.

Now that your final idea has been produced you can evaluate the success of it against this list of goals you wrote.

It is very important to state:

- If you were able to meet the specification target.
- Explain HOW well you were able to meet the target.
- If you were NOT able to meet the Specification explain WHY.
- Include USER OPINIONS.



Year 8 Drama - Term 2A: Posture, gesture and voice in performance

Key terminology	Definition		ſ		
Posture	Is the positions of someone's back or body when they are standing or sitting.		Upstage Right	Upstage Centre	Upstage Left
Stance	Is the position of someone's legs when they are standing.		<u> </u>		
Proxemics	Is the distance between two actors.		Stage	Stage	Stage
Use of space	Is how actors use the space around them on stage.		Right Downstage	Centre	Left
Pace	The speed of your voice.			Deventerer	Duuratuus
Pause	A break or deliberate moment of silence in your speech or action.		Right	Downstage Centre	Downstage Left
Tone	Describes the emotion in your voice.	<i>l</i>	l		
Pitch	Describes how high or low your voice is.			Audience	
Volume	How loud or quiet your voice is.				
Gesture	A deliberate and specific movement that communicated something to an audience.				
Mannerism	A repeated or habitual movement in character.				
Movement	Using the way that we move to communicate to an audience.				



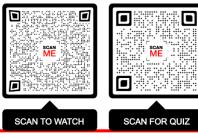
Year 8 Food - Term 2A: Food Choice

Food labelling

Currently the following information must appear by law (mandatory) on food packaging and labelling.

- Name of the food
- Date of minimum durability
- Instructions for use
- The country of origin
- A nutrition declaration
- Ingredients list (descending order of weight)
- Allergen information (in bold)
- Net quantity of the food
- Special storage instructions
- Name and address of the food manufacturer
- Alcohol strength (if more than 1.2% alcohol).

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





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quiz.

Key vocabulary	Definition	
Dextrin	Starch is broken down into dextrin by dry heat (baking/toasting).	
Dextrinisation	Browning that occurs when foods containing starch are exposed to dry heat.	
Energy needs	Energy is needed for every function and movement; whether awake or asleep.	
Grams	Unit of measurement used in recipes and on nutritional tables.	
Glucose	A monosaccharide (simple sugar) found in ripe fruits and vegetables.	
Hydration	Supply of water required to maintain the correct amount of fluid in the body.	
Hyponatremia	Condition where there is an imbalance of sodium in the body (too little).	
Kilocalories	This is the unit used to measure the energy in food.	
Portion size	The amount of food that is recommended for one person to eat in one sitting.	
Traffic light	Front of label, colour coded nutritional information (red, amber and green).	

Water in the diet Needed by the brain to manufacture hormones The Eatwell guide and the 8 tips for healthy and neurotransmitters Forms saliva living both recommend 1-2 litres of water or (digestion) drinks made from water per day. The chart Keeps mucosal Regulates body membranes moist shows some of the functions of water in the body. temperature (sweating and respiration) Allows body's cells Scan the QR to grow, reproduce Acts as a shock absorber and survive codes to watch for brain and spinal cord a video about Flushes body waste, hydration Converts food to mainly in urine components needed for SCAN ME and complete survival - digestion Lubricates joints your homework Water is the major Helps deliver oxygen all over the body component of most body parts SCAN TO WATCH SCAN FOR QUIZ

Year 8 Food - Term 2A: Food Choice

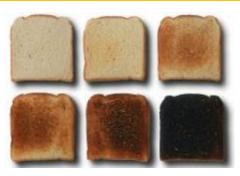
<u>Soup</u>

A food prepared from meat, poultry, fish, vegetables, grains, fruit and other ingredients, cooked in a liquid which may include visible pieces of some or all of these ingredients. Some popular soups include; tomato, lentil, chicken and leek and potato.



Soup	Country	
Minestrone	Italy	
Gazpacho	Spain	
Pho	Vietnam	
Borscht	Russia	
Ramen	Japan	
Wonton soup	China	
Chowder	USA	
Goulash	Hungary	

Dextrinisation When starches are exposed to dry heat they break down into sugars called <u>dextrin.</u> Dextrin is brown which results in food turning brown



when baked or toasted. Dextrinisation also changes the taste and smell of food. A typical example is toast. If the food is overcooked, the starch turns to carbon and the food will look black and burnt.

Food choice - reasons why we choose food.					
Cost of food Lifestyles Healthy eating					
Celebration Enjoyment Occasion					
Culture Religion Seasonality					
Fashion/trends Media Availability					



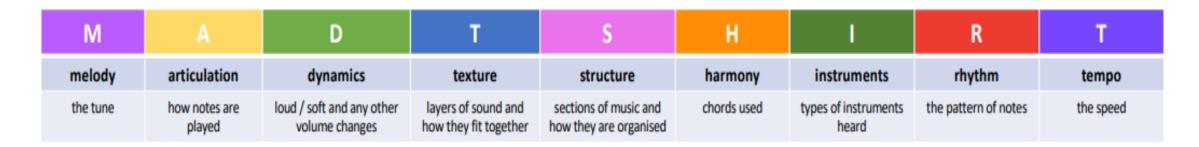


What are learning?	The Elements of Music	What is arranging?	Composition
Arranging and composing are two different types of ways to creating music. For this you will need to develop two different skills. When creating or arranging a song you must develop your knowledge of the elements of music.	 Tempo - Speed Dynamics - Volume Harmony - Simultaneous Notes Melody - A 'tune' or 'line' 	Arranging is the art of taking a piece of music and making it your own - or taking a melody and adding different instruments under it such as a rhythm section or even a full horn section. The "arrangement" is then the final product of all the instruments coming together during that one piece of music.	Musical composition, music composition or simply composition, can refer to an original piece or work of music, either vocal or instrumental, the structure of a musical piece or to the process of creating or writing a new piece of music. People who create new compositions are called composers. Composers of primarily songs are usually called songwriters; with songs, the person who writes lyrics for a song is the lyricist. In many cultures, including Western classical music, the act of composing typically includes the creation of music notation, such as a sheet music "score," which is then performed by the composer or by other musicians.





	Key Words	How to compose a song
Melody	Rhythm Phrase	
Pitch	Tonality Chords	
Dynamics	Stimulus	
Express	ion	
Structure Inspiration		
Conduct	or	
Harmony	Theme	
Timbre	Motif	
Tempo	Movement	





Test	Component Measured	How to complete the test?	
Tennis Wall Throw	Coordination	Standing 3m from the wall, throw one handed and catch one handed with the alternate hand.	
Illinois Agility Test	Agility	Complete the course as quickly as possible. Start on your front. Run up and down, up and back through cones, then up and down again.	Jam Bart Freety Freety
Stork Stand	Balance	Using the stork stand (metal 'S' shaped stand), perform the stork pose for as long as possible. As soon as the foot comes away from the leg or a step off the stand occurs the time stops.	
BMI Test	Body Composition	BMI stands for Body Mass Index. It is a measure of body composition. BMI is calculated by taking a person's weight and dividing by their height squared. The higher the number the more overweight you are.	





Test	Component Measure	How to complete the test?	*
30m Sprint test	Speed	Sprint as fast as possible over a 30m distance. The first 5m do not count in your time, this is called a flying start, allowing you to hit full speed, for the full 30m.	5m 30m
Standing Broad Jump	Power	Standing two feet together, perform a standing jump - as far as you can jump. The distance is recorded from the back of the heel. If a step is taken back, the distance is recorded from there.	
Sergeant Jump	Power	Also known at the Vertical Jump test. To start, you raise your arm against the wall to record the first measurement. A step is taken into the wall, before performing an explosive jump upwards to record a second measurement. The distance between before measurements is your score.	
12 minute cooper run	Cardiovascular Endurance	Cones to be evenly spaced at a set distance. Run for as long as possible until the 12 minutes are finished, whilst counting the markers, to work out the final distance.	



Year 8 Spanish – Term 2A

1. Verbos importantes

Verbos para la comida				
Desayuno For breakfast I have				
Como	For lunch I have			
Meriendo	For snack I have			
Almuerzo For lunch I have				
Ceno	For tea I have			

2. La comida y las bebidas

El desayuno (breakfast)				
I have	Tomo	I eat	Como	
I drink	Bebo	cereals	cereales	
a croissant	un croissant	bread and jam	pan y mermelada	
chocolate	chocolate	coffee	un café	
bread	pan	coffee with milk	un café con leche	
butter	mantequilla	tea	un té	
fruit	fruta	hot chocolate	un chocolate	
			caliente	
jam	mermelada	orange juice	un zumo de naranja	
toast	tostadas	milk	leche	

3. La comida y las bebidas

La comida (lunch) y la cena (tea)				
rice	el arroz	soup	la sopa	
chicken	el pollo	salad	la ensalada	
fish	el pescado	meat	la carne	
cheese	el queso	pizza	la pizza	
рор	una gaseosa	biscuits	las galletas	
ham	el jamón	chips	las patatas fritas	
a coke	una coca cola	pasta	pasta	
a sandwich	un bocadillo	potatoes	patatas	
an omelette	una tortilla	vegetables	verduras	
a yoghurt	un yogur	crisps	patatas fritas	
an ice-cream	un helado	water	agua	



Year 8 Spanish – Term 2A

4. Los adverbos de frequencia 6. Verbos deportistas

<u>Forming regular adverbs</u>
-ly = mente
Take the adjective - make it feminine -
add mente
Desafortunadamente - unfortunately
Normalmente - normally
Generalmente - generally
Tristemente - sadly
Frequentemente - frequently
Rápidamente - guickly
Lentamente - slowly
•

Sporting verbs Ganar - to win Perder - to lose Empatar - to beat Marcar un gol - to score a goal Jugar - to play Hacer - to do Ir - to go Entrenar - to train Participar - to take part Mantenerse en forma - to stay in shape Jubilar(se) - to retire Llevar - to wear / carry

5. Verbos en presente y el pasado

Normally (present)		Recently (p	ast tense) In	the past (when	n I was younger)
I eat	Como	I ate	Comí	I used to eat	Comía
I play	Juego	I played	Jugué	I used to play	Jugaba
I drink	Bebo	I drank	Bebí	I used to	Bebía
				drink	
I go	Voy	I went	Fui	I used to go	Iba
I do	Hago	I did	Hice	I used to do	Hacía
It is	Es	It was	Fui	It used to be	era

7. Las actividades deportistas

Common sporting activities

Jugar al / a la / a los - to play Baloncesto - basketball Fútbol - football Tenis - tennis Hacer alpinsimo - to do mountain climbing Esquí-skiing Vela-sailing Natación-swimming Equitación-horse riding la gimnasia- gynastics el piragüismo - canoeing el kayak- kayaking Atletismo- athletics el ciclismo - cycling Nadar - to swim Patinar - to skate Ir a pescar - to go fishing Ver un partido - to watch a match Participar en un torneo - to take part in a tournament Ir a entrenamiento - to go training El deporte de equipo - team sports El deporte individual - individual sport



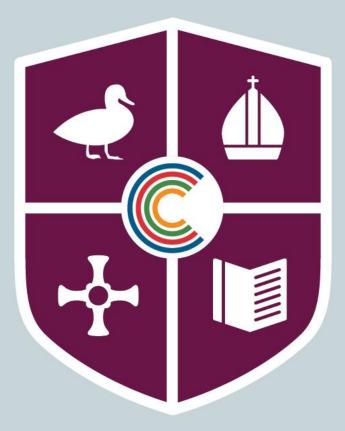






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Live life in all its fullness