

Year 9 Learning Journal Learning Cycle 2

Student Name:

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Home Learning Timetable and Information

Revision Focus Fortnight

Week 1

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Time	Saturday	Sunday
8.30am - 4pm						8.30am - 4pm		
4pm - 5pm						4pm - 5pm		
5pm - 6pm						5pm - 6pm		
6pm - 7pm						6pm - 7pm		
7pm - 8pm						7pm - 8pm		
8pm - 9pm						8pm - 9pm		

Revision Focus Fortnight

Week 2

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Time	Saturday	Sunday
8.30am - 4pm						8.30am - 4pm		
4pm - 5pm						4pm - 5pm		
5pm - 6pm						5pm - 6pm		
6pm - 7pm						6pm - 7pm		
7pm - 8pm						7pm - 8pm		
8pm - 9pm						8pm - 9pm		





Summarise

Organise

Recall

Test Yourself

class notes,
handouts and wider
reading to
condense and
transform them as
you go along (saves
time and stress
closer to exams).

Organise your notes and revision using PLCs (or Exam Specifications) and create Revision Timetables, to focus time and effort on weaknesses.

Use active recall and spaced repetition to memorise the information.

Test Yourself using low stakes and high stakes questions to check you can apply knowledge and understanding.

40%

10%

30%

20%







Steps to Success with your Studies Condense Flash Cards **Revision Clocks**

Choice

or App

器

using PLC Write Qs

Online Quiz





Organise











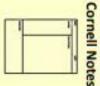


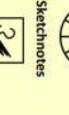












Dual Code

Organisers







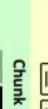












Organise Folders

(Weekly)













Revision Timetable

(Weekly Review)











(Testing Effect)

Active Recall





















Recall

Page Retrieval Blurt - Blank

Mnemonics

Group Games













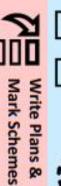














200





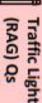


Questions Past Paper











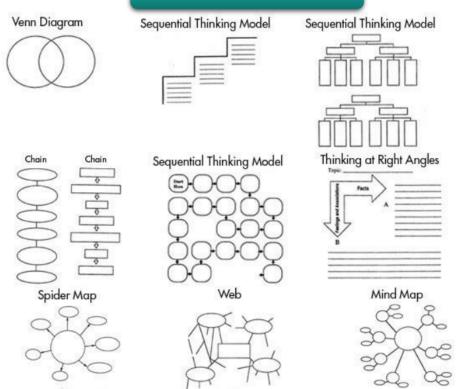




How to Summarise using ...



Graphic Organisers



How do I make one/use one?

- Decide what you need to know about the topic e.g. cause and effect, chain of consequences, similarities/differences etc
- 2. Choose an appropriate template to print or draw
- 3. Organise your revision notes according to the template you have chosen.

What is the idea?

Using a template to organise your revision notes to help you condense, organise, link and sequence ideas.

What is it useful for?

- Case studies/topic overview
- Larger topics which need chunking
- Each template has different uses

Pros

There are a huge range of templates that you can use — these might help organise your ideas better according to the topic, and what you need to know about it.

They can help you sequence and link ideas, as well as summarising.

They help you see the information in different ways and get you thinking more – which helps with RECALL.

Cons

Printed templates can be restrictive.

You need to have thought about how you want to organise your ideas/what you need to know about the topic in order to select an appropriate template.

There may be too much time spent choosing which one to use!

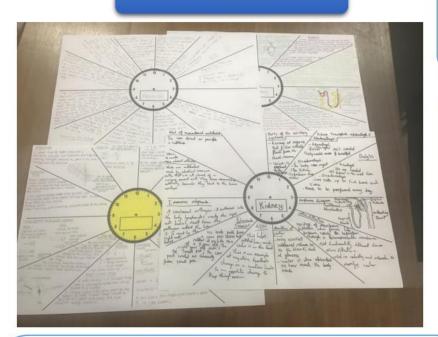




How to Summarise using ...



A Revision Clock



How do I make one/use one?

- Chunk your topic/case study into 12 headings (if using 5 minute divisions)
- You can group several divisions together into broader categories (e.g. Causes, Effects or Social, Economic, Environmental etc)
- 3. Spend the allotted 'time' making revision notes (words and images) in each section.
- 4. RECALL a section using Look, Cover, Say, Write (spending the allotted time for each one).

What is the idea?

The sheet helps you to chunk your topic and time into smaller chunks (e.g. 5 or 10 minute sections).

What is it useful for?

- Case studies/topic overview
- Remembering facts within a topic
- · Larger topics which need chunking
 - Managing your time

Pros

Can include images and written detail which helps your visual and verbal memory (dual coding) - more detail than a mind map.

You can use the 'timed sections' to divide your time creating the sections of the revision clock, and/or spending time learning them/self-testing.

Can use different time divisions e.g. 6 x 10 minutes.

Cons

Doesn't help you make links between areas of a topic (but you can 'group' sections together).

They can be time consuming to create (if you don't stick to the timings).

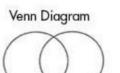




How to Recall using ...

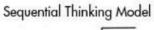


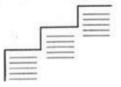
Graphic Organisers



Chain

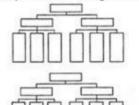
Spider Map



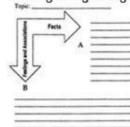


Sequential Thinking Model

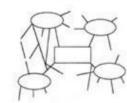
Sequential Thinking Model







Web



Mind Map



What is the idea?

Use any graphic/visual organizer or Pixl thinking sheet to recall information from a topic.



- Select an appropriate template
- Recall your revision onto the template without using your notes.
- Once complete check what you missed/got wrong using your notes
- Make corrections/additions in a different colour.
- 5. Focus on these areas the next time you revise.
- 6. Repeat.





How to Recall using ...



Mnemonics

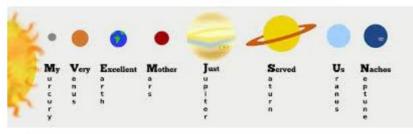


Kings	Play	Chess	On	Fine	Glass	Sets
K I N G D O M	P H Y L U M	C L A S S	O R D E R	F A M I L Y	G E N U S	SPECLES

What is the idea?

Learning a different phrase or word to remember the order of something or important things to remember.

You can create your own or there are many examples on the internet!



A.V.O.C.A.D.O. =

- 1. A → Adjectives
- Verbs (Variety of Verbs)
- 3. O → Opinions
- C → Connectives
- 5. A → Adverbs
- 6. D → Description
- 7. O → ORIGINALITY

PAPER 1 Q3: ANALYSING STRUCTURE



CAMBRIAN PERIOD	545-490 my	a camels
ORDOVICIAN PERIOD	490-445 my	often
SILURIAN PERIOD	445-415 my	sit
DEVONIAN PERIOD	415-355 my	down
ARBONIFEROUS PERIOD	355-290 mg	a carefully
PERMIAN PERIOD	290-250 my	, perhaps
TRIASSIC PERIOD	250- 299 m	ya their
JURASSIC PERIOD	¥ 200- 145 m	ya joints
CRETACEOUS PERIOD	_ 145-6 mya	5 creak
TERTIARY PERIOD	65-1.64 mya	terribly
QUATERNARY PERIOD	1.64 mya- present day	quietly



English Personal Learning Checklists

Dr. Jekyll and Mr Hyde	S	0	R	т
What makes a typical Victorian Gentleman?				
What do you learn about the character Mr Utterson in this opening chapter?				
How is Mr Hyde presented in Chapter One?				
How are Dr. Jekyll and Mr. Hyde contrasted?				
How does the setting of London reflect the theme of duality in the play?				
What is Darwin's theory? How does it link to how Stevenson presents Hyde?				
What are the id, ego and superego? Which character do you think represents each of these?				
Which characters represent the conflict between Science and the Supernatural in Victorian England, and why?				
How do Lanyon and Jekyll represent different views?				
How does Lanyon change in chapter 6?				
How does Jekyll change in chapter 7?				
What similarities do you see between Chapter 1 and Chapter 7?				
What does the breaking down of the door symbolise?				
What do we learn about Jekyll and Hyde from Dr Lanyon's letters?				
How does Utterson try to maintain appearances?				
What do you learn about Jekyll's past?				
What does Jekyll say is the true nature of man?				
In what ways has Jekyll failed in his experiment?				
Ian Rankin's article: Dr Jekyl and Mr Hyde		0	R	Т
What do you learn about the life of Robert Louis Stevenson in the article?				

A Walk in the Workhouse by Charles Dickens	S	0	R	Т
How is are the workhouses presented in Dickens' article: A Walk In A Workhouse?				
In a London Drawing room by George Elliott	S	0	R	Т
How is the City of London presented in George Elliot's poem: London in a Drawing room?				
Medusa by Carol Anne Duffy	S	0	R	Т
How does Duffy present her ideas about 'love' in Medusa?				
How is imagery used in Medusa to show the brides change?				

English Knowledge Organiser – Jekyll & Hyde

1	TIER THREE VOCABULARY
Zoomorphism	When a character or an object is given animalistic or primal features
Human Condition	The state of humankind – why we are the way we are and behave the way we are. Writers often explore an aspect of the human condition in their writing.
Gothic	Writing or stories that include dark, supernatural or sinister themes. Gothic literature often combines elements of the disturbing with beauty and fascination.
Symbolism	When something, usually a physical item, is used to represent an idea or concept that is important to the story
Pathetic Fallacy	When the weather is used to reflect the mood or feeling in a story
Incrementum	Refers to a steady increase of something. This can refer to a steady increase of tension through a story or can refer to a steady increase in the length of sentences.
Epistolary	When a story or novel is written in or includes a series of letters
Anecdote	A short, amusing story about something that has happened
Hyperbole	Overdramatic language.
Imagery	Descriptive or figurative language that helps the reader visualize the story (i.e. metaphors and similes are forms of imagery)

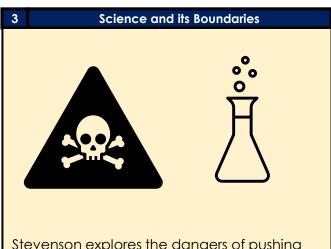
Victorian Culture – Gentlemen

They were expected to be: well dressed, articulate, well-read, and chivalrous.

They were not supposed to gossip.



Freud's Structure of the Human Psyche Freud's Structure of the Human Psyche Id: Ego: Superego: Instincts Reality Morality



Stevenson explores the dangers of pushing science too far through the events of the novel but particularly the characters of Lanyon and Jekyll. At the time, it was deemed as dangerous to 'play at being God'

5 Thesis Writing

Thesis writing is where we outline our argument for a Literature Essay. We use a three-pronged approach.

First sentence → What does the writer aim to achieve with the text overall?

Second sentence → How does the writer get this argument across? Which characters or moments do they use?

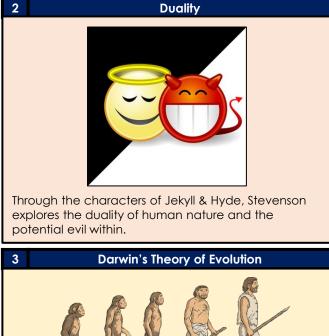
Third sentence → Provide references from across the text and then explain WHY the writer has done this.

Key Characters	Purpose & Summary
Doctor Jekyll	Doctor Jekyll is one of the main characters of the novella. He becomes carried away by scientific ambition. This ultimately leads to dire circumstances. He represents internal conflict and the ego.
Mr Hyde	Mr Hyde is a savage character who represents humanity's former primitive state. Hyde is brutal and described as having 'ape-like fury'. He represents the ID.
Mr Utterson	Utterson serves as the detective of the story. He is the voice of reason throughout the novella and is largely seen to be a typical Victorian gentleman – on the surface at least.
Doctor Lanyon	Doctor Lanyon serves as the antithesis of Doctor Jekyll. He is apprehensive about scientific advancement, even referring to Jekyll's work as 'scientific balderdash'. He is constrained by society and is largely seen to parallel the super-ego.

Key Symbols	What They Represent
Alcohol	Alcohol is used as a motif throughout the novella to represent social status.
Jekyll's House and Laboratory	These two images symbolise the duality of human nature – the laboratory being hidden within.
Doors	Stevenson includes a number of significant doors throughout the text, and collectively, they work to symbolize the Victorian Era's preoccupation with the separation of public life and private life. They also represent mystery and secrecy.
Female Characters	The female characters in the novella are either used as damsels in distress or having subservient roles. This is symbolic of the patriarchal society prevalent in Victorian London.

English Knowledge Organiser – Jekyll & Hyde

1	TIER THREE VOCABULARY
Motif	An item, usually a physical item, that is referred to throughout a story which represents something. A motif is usually linked to symbolism or theme
Fragmentary Narrative	When a story is not told in the order that it happened but, instead, jumbles the sequence of events or jumps backwards and forwards in time (i.e. using a flashback)
Conjunction	Words or phrases that join together sentences or ideas.
Personification	When an object or thing is given human qualities or emotions
Oxymoron	A phrase that contains two words that are contradictory but the phrase still makes sense.
Foreshadowing	When the reader is given a hint of something to come later in the story
Cyclical Narrative	When a writer returns to an important idea or concept from the very beginning of the story
Tone	The way something is written or said to communicate an emotion or feeling
Oxymoron	A phrase that contains two words that are contradictory but the phrase still makes sense.
Rhetorical Questions	Questions in a story that are there to establish intrigue or doubt



Stevenson explores ideas about Darwin's Theory of Evolution through the character of Hyde. He is described using a technique called Zoomorphism to dehumanise him and discuss humanity's inherently savage nature - 'ape-like fury.'

Essay Writing

Begin to explore what makes a good Literature Essay with a Thesis Led approach.

- 1. A really clear and perceptive argument, driven through a thesis.
- 2. Analysis of the text the characters, the structure and the language used in order to support our argument.
- 3. Demonstrating an understanding of what the writer aimed to achieve with their story.





Read other stories such as the works of Arthur Conan Doyle and Charles Dickens to support your understanding of these crucial genres.

Maths Personal Learning Checklists

Numbers	Sparx Code	S	0	R	Т
Revisit number – including rational and real numbers	U338				
Directed number	M106, M288				
Problem solving with integers and decimals					
HCF and LCM	M698, M227				
Fractional arithmetic	M157, M110, M835				
Standard form	M719, M678				
Using percentages	Sparx Code	S	0	R	Т
Equivalence, fractions, decimals & percentages	M264				
Percentage increase and decrease	M476, M533				
Percentage change including reverse percentages	M528				
Repeated percentage change (H)	U332				
Maths & Money	Sparx Code	S	0	R	Т
Bank Statements and bills	M901				
Simple and compound interest	U533, U332				
Exchange rates	U610				
Unit pricing – best buys	U721				

Deduction	Sparx Code	S	0	R	Т
Angle rules in parallel lines	M679, M276				
Angles with algebra					
Conjectures with angles and shapes	M606, M351, M319, M653				
Constructions and geometrical reasoning	M232, M239, M565				
Rotation & Translation	Sparx Code	S	0	R	Т
Rotational symmetry/Lines of symmetry	M523				
Rotation	M910				
Translation including invariant points	U196				
Combined transformations (H)	U766				
Pythagoras' Theorem	Sparx Code	S	0	R	Т
Understanding the properties of a right- angled triangle					
Calculating missing sides of a right- angled triangle	M677				
Pythagoras in 3D (H)	M147				

VOCABULARY

VOCABULARY

VOCABULARY

Integer: a whole number that is positive or negative

Rational: a number that can be made by dividing two integers Irrational: a number that cannot be made by dividing two integers

Inverse operation: the operation that reverses the action

Quotient: the result of a division

Product: the result of a multiplication.

Multiples: found by multiplying any number by positive integers Factor: integers that multiply together to get another number

Equivalent: of equal value.

Reduce: to make smaller in value.

Growth: to increase/ to grow.

Integer: whole number, can be positive, negative or zero. **Invest**: use money with the goal of it increasing in value over time (usually in a bank).

Multiplier: a number you are multiplying by. (Multiplier more than 1 = increasing, less than 1 = decreasing) Per Annum: each year

Profit: the income take away any expenses/ costs.

Credit: money being placed into a bank account

Debit: money that leaves a bank account

Balance: the amount of money in a bank account

Expense: a cost/ outgoing.

Deposit: an initial payment (often a way of securing an

item you will later pay for)

Currency: the type of money a country uses.

Unitary: one – the cost of one.

Parallel: two straight lines that never meet with the same gradient. Perpendicular: two straight lines that meet at 90°

Transversal: a line that crosses at least two other lines.

Sum: the result of adding two or more numbers.

Conjecture: a statement that might be true but is not proven. Equation: a statement that says two things are equal

Polygon: a 2D shape made from straight edges.

Counterexample: an example that disproves a

statement

Rotate: a rotation is a circular movement.

Symmetry: when two or more parts are identical after a transformation.

Regular: a regular shape has angles and sides of equal lengths.

Invariant: a point that does not move after a transformation.

Vertex: a point two edges meet.

Horizontal: from side to side

Vertical: from up to down

Square number: the output of a number multiplied by itself

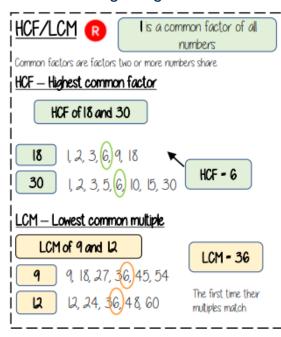
Square root: a value that can be multiplied by itself to give a square number

Hypotenuse: the largest side on a right angled triangle. Always opposite the right angle.

Opposite: the side opposite the angle of interest

Adjacent: the side next to the angle of interest



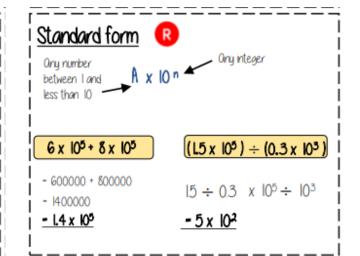


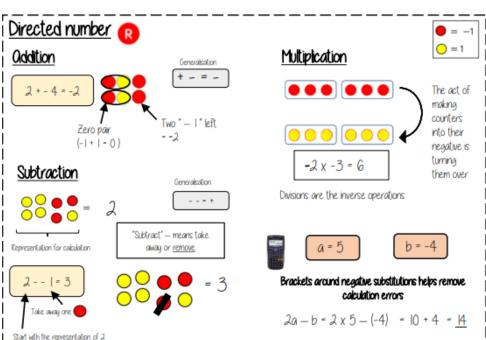
Integers, real and rational numbers Rational — root word: ratio

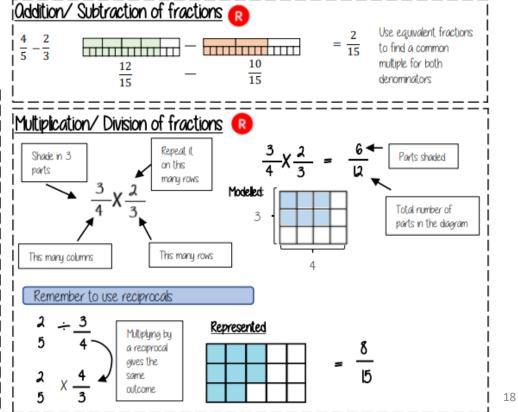
Real numbers: $\frac{2}{3}$ stems from 2:1 ($\frac{2}{3}$ of the whole)

Irrational numbers: $\sqrt{2}$ the solution is a decimal that never ends and does not repeat.

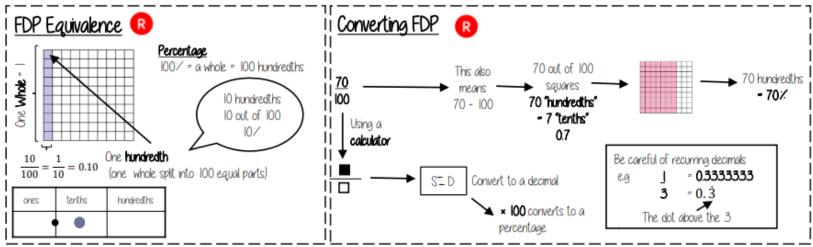
The square root of a negative is not a real number and cannot be found.

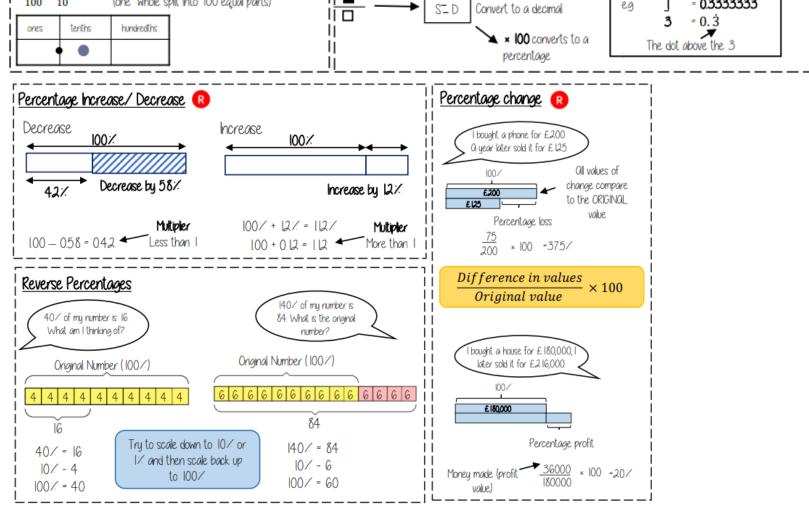






Maths Knowledge Organiser – Using Percentages





Maths Knowledge Organiser - Maths & Money

Bills and Bank Statements

Bills — tell you the amount items cost and can show how much money you need to pay

some can include a total Look for different units (Is it in pence or pounds)

Menu	Price
Mik	89p
Tea	£1.50

Bank Statements

Bank statement can have negative balances if the money spent is higher than the money coming into the account

Date	Description	Credit	Debit	Balance
lgih Sept	Salary	£1500		£1500
lgih Sept	Mortgage		£600	£900
25th Setp	Bday Money	£15		£915

Simple Interest For each year of investment the interest remains the same Principal amount ×Interest Rate × Years 100 Principal amount is the amount invested in the account e.g. hivest £100 at 30 × simple interest for 4 years 100 × 30 × 4 100 × 3



<u>Value Odded Tax (VOT)</u>

VOT is payable to the government by a business. In the UK VOT is 20% and added to items that are bought.

Essential items such as food do not include VOT.

Wages and Taxes

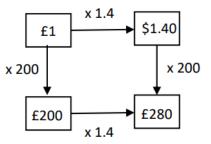
Salaries fall into tax brackets — which means they pay this much each month from their salary

Taxable Income	Tax Rate
£12 501 to £50 000	20%
£50 001 to £150 000	40%
over £150 000	45%

Over time

Time and a half — means 1,5 times their hourly rate Double — 2 times their hourly rate

Exchange Rates



When making estimates it is also useful to use <u>estimates</u> to check if our solution is reasonable.

Use inverse operations to reverse the exchange process

Common Currencies		
United Kingdom	£	Pounds
United States of America	\$	Dollars
Europe	€	Euros

Unit Pricing

4 Oranges £1 5 cupcakes £1.20

4 = £1.002 = £0.501 = £0.25 $<math display="block">2 \div 2 \qquad 5 = £1.20$ 1 = £0.20 $<math display="block">2 \div 5 \qquad 1 = £0.20$

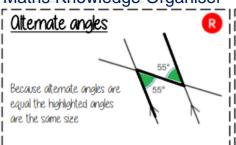
Cost per Unit

To calculate unit per cost you divide by the cost.

Cupcakes are the best value as one item has the cheapest value

There is a directly proportional relationship between the cost and number of units.

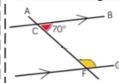
Maths Knowledge Organiser – Deduction



Corresponding angles

Because corresponding angles are equal the highlighted angles are the same size

Co-interior angles



Because co-interior anales have a sum of 180° the highlighted angle is 110°

Os anales on a line add up to 180° co-interior anales can also be calculated from applying alternate/corresponding

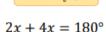
Solving angle problems

Ongles on a straight Line





Link anale facts to algebra



Form an equation

State the reason

The sum of anales on a straight line is 180°

Solve

 $2x + 4x = 180^{\circ}$

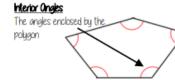
 $6x = 180^{\circ}$

 $x = 30^{\circ}$

Vertically opposite angles Ongles around a point 360°

Trianales Sum of anales is 180°

Isosceles have the same base angles



Make conjecture

The angle that

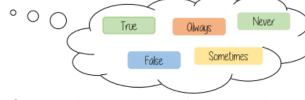
meets the

circumference in a

emi circle is 90°

(number of sides -2) x 180

Making conjectures with angles



Proving a conjecture

a pattern is noticed for many cases



Disproving a conjecture Only one counterexample is needed to disprove a conjecture



Opply the angle rules

The sum of angles in a triangle is 180°

Test the theory

180 - 70 - 20 = 90180 - 85 - 5 = 90

180 - 45 - 45 = 90

Orea: the amount of space inside a shape Perimeter: the length around a shape Regular Polygons: Oll sides and angles are equal

Making conjectures with shapes Keuwords and facts to recall with shape

Quadrilateral Facts



Oil sides eaud size Oll anales 90° Opposite sides are parallel



Parallelogram

Opposite sides are parallel Opposite angles are equal Co-interior angles

Rectangle Oil angles 90°

Opposite sides are parallel



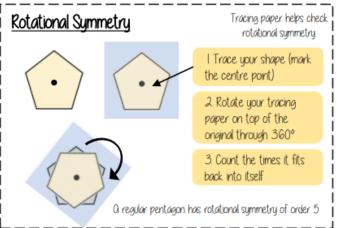
Rhombus

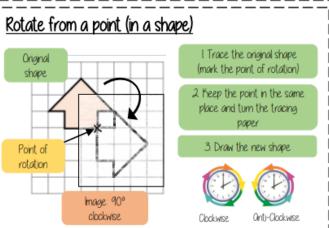
OII sides equal size Opposite angles are equal

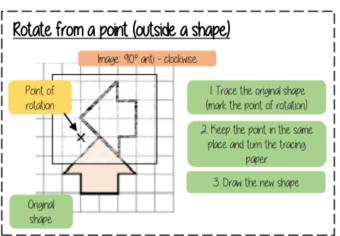


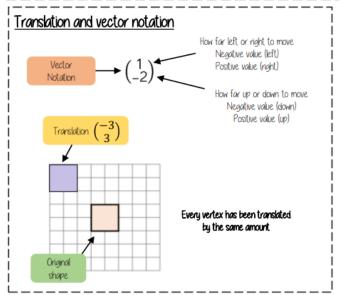
No parallel lines Equal lengths on top sides Equal lengths on bottom

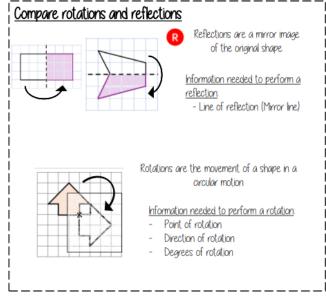
One pair of eaual anales

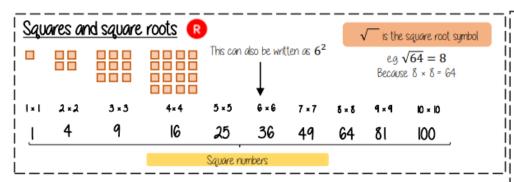




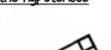




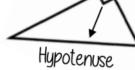




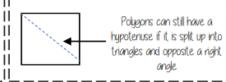
Identify the hypotenuse



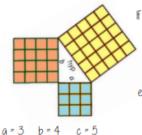
Maths Knowledge Organiser – Pythagoras' Theorum



The hypotenuse is always the longest side on a triangle because it is opposite the biggest angle.



Determine if a triangle is right-angled



If a triangle is right-angled, the sum of the squares of the shorter sides will equal the square of the hypotenuse.

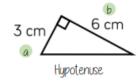
$$a^2 + b^2 = \text{hypotenuse}^2$$

eg
$$a^2+b^2 = hypotenuse^2$$

 $3^2+4^2=5^2$
 $9+16=25$

Substituting the numbers into the theorem shows that this is a right-angled triangle

Calculate the hypotenuse



Either of the short sides can be labelled a or b

$$a^2 + b^2 = \text{hypotenuse}^2$$

I Substitute in the values for a and b

 $3^2+6^2 = hypotenuse^2$

 $9 + 36 = \text{hypotenuse}^2$

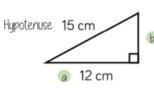
 $45 = hypotenuse^2$

2 To find the hypotenuse square root the sum of the squares of the shorter sides

 $\sqrt{45}$ = hypotenuse

6.71cm = hypotenuse

Calculate missing sides



 $a^2 + b^2 = \text{hypotenuse}^2$

Either of the

short sides

can be

labelled a or b

$$12^2 + b^2 = 15^2$$

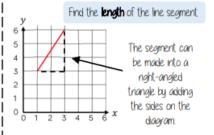
I Substitute in the values you are given

$$144 + b^2 = 225$$

Rearrange the equation by subtracting the shorter square from the hypotenuse squared

Square root to find the length of the side $\begin{cases} b^2 = 111 \\ b = \sqrt{111} = 10.54 \ cm \end{cases}$

<u>Pythagoras' theorem on a</u> <u>coordinate axis</u>



The line segment is the hypotenuse

$$a^2 + b^2 = \text{hypotenuse}^2$$

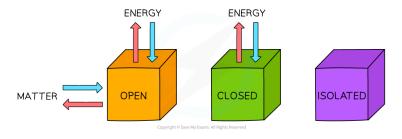
The lengths of a and b are the sides of the trianale.

Be careful to check the scale on the axes

Science Personal Learning Checklists

Physics Energy	S	0	R	Т
Energy Stores and Systems				
Gravitational Potential & Kinetic				
Elastic Potential				
Power & Work Done				
Specific Heat Capacity				
Conservation of Energy + Thermal insulators (Triple Only)				
National & Global Energy				
Energy Stores and Systems				
Gravitational Potential & Kinetic				
Physics Particles	S	0	R	Т
Density of Materials				
Changes of State & Internal Energy				
Temperature Change and SLH				
Particle Motion of Gases				
Pressure in Gases (Triple only)				
Physics Particles	S	0	R	Т
Structure of the atom				
Radioactive Decay & Decay Equations				
Half Lives				
Chernobyl				
Background Radiation & Uses of Radiation (Triple)				

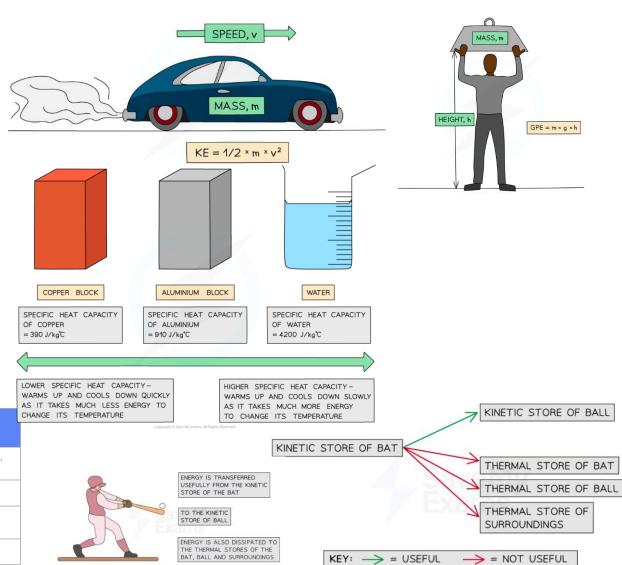
Disease	S	0	R	Т
Communicable diseases				
Natural defences				
Immunity and vaccinations				
Antibiotics and Painkillers				
Drug Development				
Communicable diseases				
Monoclonal antibodies and applications				
Biology Photosynthesis and Respiration	S	0	R	Т
Leaves and Photosynthesis				
Roots and Stems				
Transpiration and Translocation				
Plant Diseases (Triple only)				
Plant Diseases (Triple only) Photosynthesis, uses of glucose and limiting factors				
Photosynthesis, uses of glucose and				
Photosynthesis, uses of glucose and limiting factors				

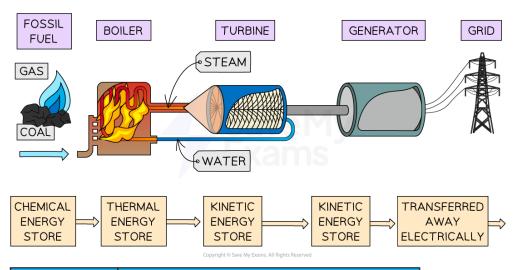


Energy Store	Description
Kinetic	Moving objects have energy in their kinetic store
Gravitational	Objects gain energy in their gravitational potential store when they are lifted through a gravitational field
Elastic	Objects have energy in their elastic potential store if they are stretched, squashed or bent
Magnetic	Magnetic materials interacting with each other have energy in their magnetic store
Electrostatic	Objects with charge (like electrons and protons) interacting with one another have energy in their electrostatic store
Chemical	Chemical reactions transfer energy into or away from a substance's chemical store
Nuclear	Atomic nuclei release energy from their nuclear store during nuclear reactions
Thermal	All objects have energy in their thermal store, the hotter the object, the more energy it has in this store

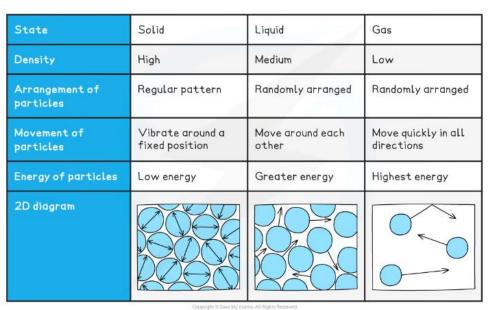
Energy Transfer Pathway Table

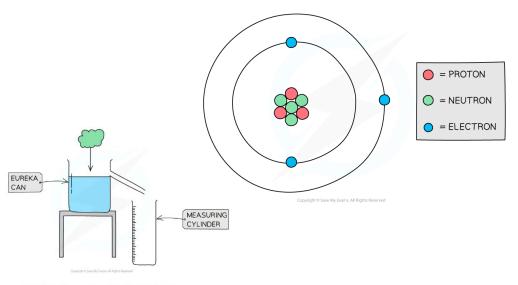
Transfer Pathway	Description	L
Mechanical working	When a force acts on an object (e.g. pulling, pushing, stretching, squashing)	
Electrical working	A charge moving through a potential difference (e.g. current)	
Heating (by particles)	Energy is transferred from a hotter object to a colder one (e.g. conduction)	
(Heating by) radiation	Energy transferred by electromagnetic waves (e.g. visible light)	





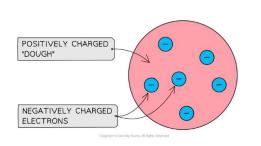
Energy Resources	Description
Fossil fuels	Fossil fuels are combusted to heat water to produce steam to turn turbines to generate electricity
Nuclear	Nuclear fuels are reacted to heat water to produce steam to turn turbines to generate electricity
Bio-fuels	Plant matter, ethanol or methane can be produced and used as a fuel in place of fossil fuels
Wind	Wind turns turbines directly to generate electricity
Hydroelectric	Water is stored at a height, and when released, rushing water turns turbines directly to generate electricity
Tidal	The movement of water due to tides turn turbines directly to generate electricity
Geothermal	Hot rocks underground are used to heat water to produce steam to turn turbines which generate electricity
Solar	Solar cells use light to generate electricity, solar panels use thermal radiation to heat water to produce warm water for household use
Water waves	Moving water due to waves turn turbines directly to generate electricity



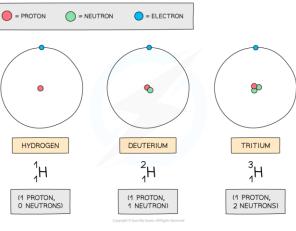


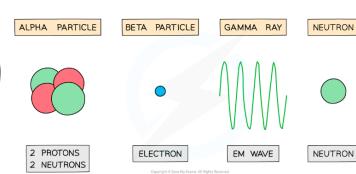
Apparatus for measuring the density of irregular objects

Isotopes



JJThomson thought of the atom as being a positively charged mass embedded with small negatively charged electrons – a bit like a plum pudding

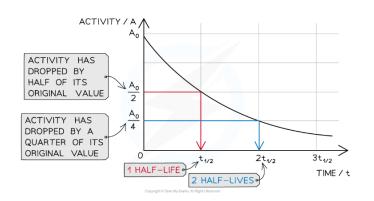




Alpha particles, beta particles, gamma waves and neutrons can be emitted from unstable nuclei

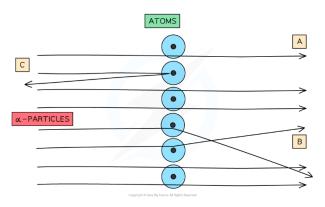
straight through the gold foil			
A straight through the gold foil A few alpha particles were The nucleus of the atom has	Finding	C	Conclusion
			Atoms are mostly empty space
continued through the gold foil	B deflected fro	eir path but a	The nucleus of the atom has a strong positive charge
C A small number of alpha particles The atoms contains a smal heavy nucleus			The atoms contains a small, neavy nucleus

Half-life is defined as: The time it takes for the number of nuclei of a sample of radioactive isotopes to decrease by half

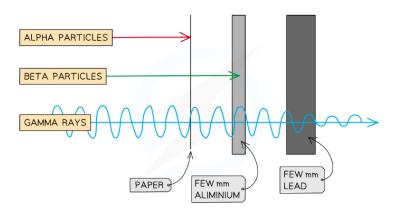


The diagram shows how the activity of a radioactive sample changes over time. Each time the original activity halves, another half-life has passed

27

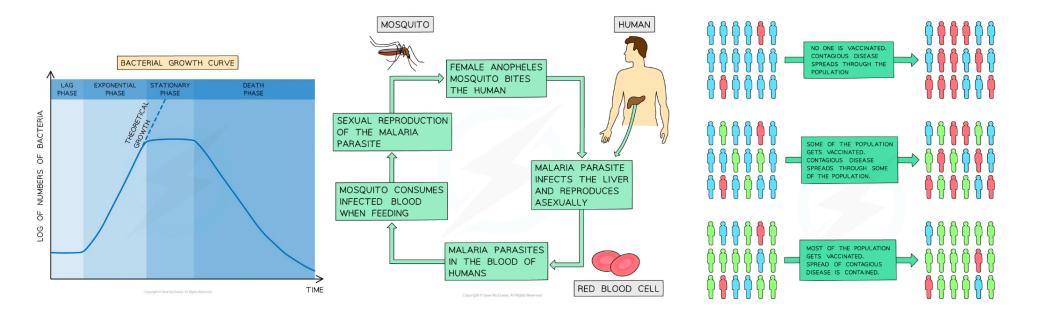


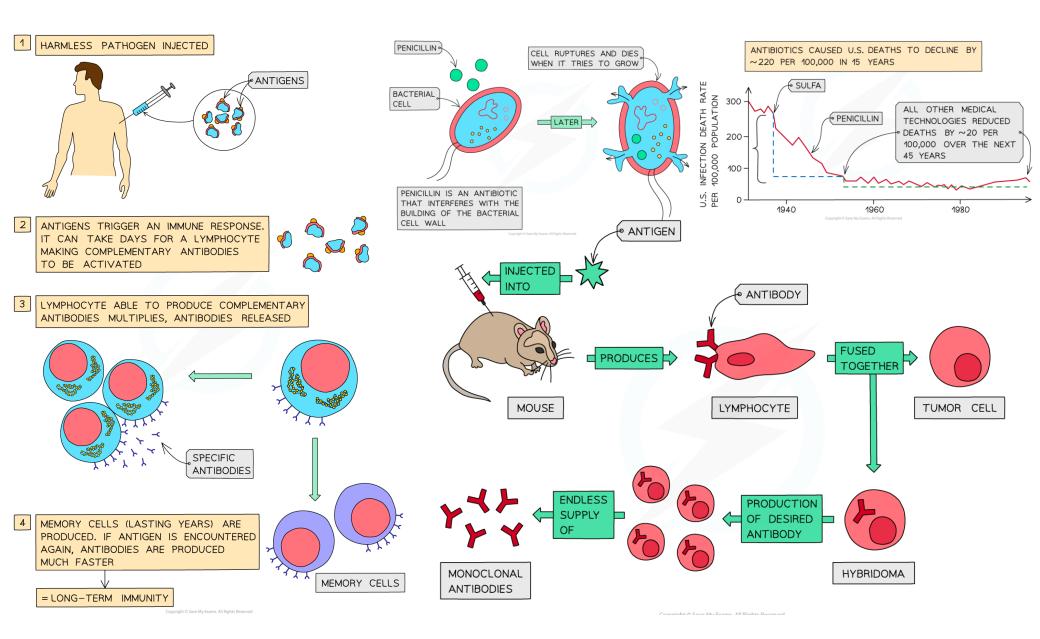
When alpha particles are fired at thin gold foil, most of them go straight through, some are deflected and a very small number bounce straight back

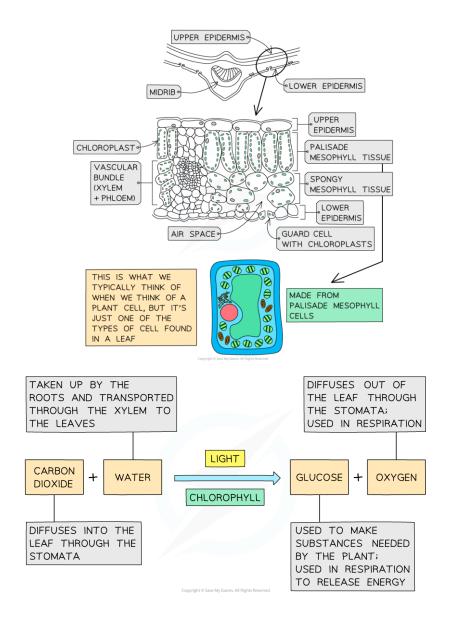


Infectious & non-infectious diseases table

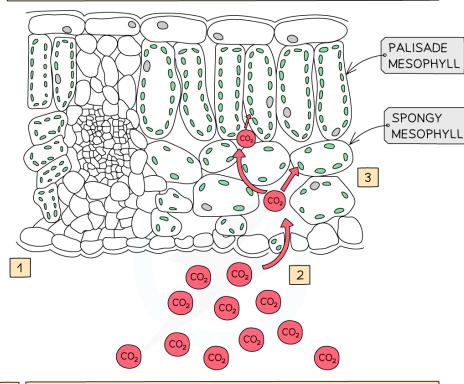
	Definition	Examples
Infectious disease	Disease caused by a pathogen that passes from infected individuals to uninfected individuals Also known as communicable disease	Cholera, HIV/AIDS, malaria, tuberculosis
Non- infectious disease	Long-term diseases that are not caused by pathogens	Lung cancer, cardiovascular disease, depression, cystic fibrosis, vitamin deficiencies







PATHWAY OF CO, MOLECULE WHEN LEAF IS PHOTOSYNTHESIS



- 1 HIGHER CONCENTRATION OF CO_2 IN ATMOSPHERE COMPARED TO INSIDE OF LEAF
- 2 CO₂ DIFFUSES INTO LEAF THROUGH OPEN STOMA INTO AIR SPACE IN SPONGY MESOPHYLL
- 3 CO₂ DIFFUSES THROUGH CELL WALL + CELL MEMBRANE OF MESOPHYLL CELL, DISSOLVES IN CYTOPLASM + DIFFUSES INTO CHLOROPLAST

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Computing Personal Learning Checklists

Digital Graphics	S	0	R	Т
Understand why digital graphics are used				
Understand how digital graphics are used				
Understand the different uses of colours in images				
Describe the emotions linked to a range of colours				
Explain how different purposes and audiences influence the design and layout of digital graphics.				
Identify target audience requirements				
Understand different composition styles				
Apply composition styles to graphics				
I can add text to a graphic				
I have Identified a wide range of file types and formats				
I can explain the connection between the properties of digital graphics and their suitability for use.				
I can create an interpretation from the client brief which fully meets the client requirements.				
I can identify target audience requirements.				
Produce a visualisation diagram for a digital graphic				
Identify the resources needed to create a digital graphic				
Understand how legislation applies to images used in digital graphics				
Create a graphic based upon a client brief as well as relevant pre-production documents				

GCSE Basics	S	0	R	Т
Identify a range of peripherals & describe their purpose				
Understand what an Input & output & storage device is				
Understand the purpose of the CPU				
Understand the factors that affect the performance of the CPU				
Understand the need for primary and secondary storage				
Describe the purpose of RAM and ROM in a computer system				
Define a Wide Area Network & a Local Area Network				
Understand how networks are made and how communication between devices happens on a network.				
Understand forms of attack and threats posed to a network				
Understand the impact on the environment as well as ethical and cultural aspects that computers affect.				
Understand key computational terms				
Understand key searching algorithms				
Understand how data can be sorted into order				
Use a bubble, insertion and merge sort				
To understand what Boolean Logic is				
To understand what logic gates are and how they are used in a CPU				
Understand how denary numbers are represented in binary				
Understand how binary numbers can be added together				
Understand how binary is used in images				

Computing Knowledge Organiser – Digital Graphics

Companing	<u> Kilowieuge Organisei – Digitai Graphic</u>
1	TIER THREE VOCABULARY
Annotate/An	To add notes (text or diagram) by giving comments or
notation	explanation.
Accete	The content collected or created for a final product, such
Assets	as images, sound and video.
Application	Software for use by users for a specific task
software	
Bitmap (bmp)	An image file format that can be used to create and store
bitiliap (bilip)	computer graphics .
Browser	Computer program that allows users to navigate the
Diowsei	World Wide Web.
Client brief	Is a clear statement of the client's business problem that
Chefft brief	needs solving.
Colour Theory	how colours work together and affect our emotions and
colour fricory	perceptions
Composition	how you arrange and place design elements on a page
Copyright	Law or legislation that gives the owner of a work the right
Law	to say how other people can use it.
Demographic	The traits of a group of people or things
S	
DPI	A property of an image that states how many 'dots per
resolution	inch' to use. Printing publication normally requires 300dpi
resolution	whereas web or online publication requires 72dpi.
File	An object on a computer that stores data
	Is the structure of a file that tells a program how to
File format	display its contents. For example, PDF, JPEG, TIFF, GIF,
	MP3, WMV
File types	The type of file it is. For example, the graphic file types
The types	would be raster and vector.
File	The characteristics of a file format.
properties	
File naming	This refers to a method of naming your files and folders
convention	so that it is easily identified for quick access.
	A storage space where many files can be placed into
Folder	groups and organise the computer. A folder can also
	contain other folders.
Graphic	Something related to a visual product which may be
	drawn or produced digitally.
Layer (in	Different levels at which one can place an object or image
graphic	file. In a photo editing program, layers can be stacked,
design)	merged, or defined when creating a digital image.

Purpose of Digital Graphics	Purpose of Graphics Definition
To Entertain	Digital graphics are used in entertainment media such as video games, movies, and online videos to create visually appealing and immersive experiences for the audience.
To Inform	Graphics are employed to convey information clearly and effectively, such as in infographics, educational diagrams, and instructional materials.
To Advertise	Used in marketing and advertising campaigns to attract and engage potential customers, highlighting products, services, or brand messages.
To Promote	Graphics are used to promote events, campaigns, and causes, often seen in posters, banners, and social media content aimed at raising awareness and interest.
To Educate	Educational materials often use graphics to aid learning by simplifying complex information and making it more accessible and understandable.

3 Colours

Youthful Bold

Peaceful Growth Health

> Creative Imaginitive Wise

Balance Neutral Calm

Resources & Assets

Resources: defined as the computer hardware, equipment, peripherals and software applications needed to create the digital graphic.

Resources can be grouped into:

- · Hardware: e.g. computer (and Peripheral Devices e.g. scanner)
- Software: which image editing software could you use? And another other software
- People: who might be involved
- Materials: what extra material might need for planning?

Where can you get images from: (why are they suitable

Internet: need to check pixel dimensions (larger the

- Photographs: taken yourself or by others
- Scanned images
- Library images e.g. clipart Graphics or logos (maybe given by the client)

that media producers use to make a media product. A group of assets will make up a full digital graphic - example a CD cover.

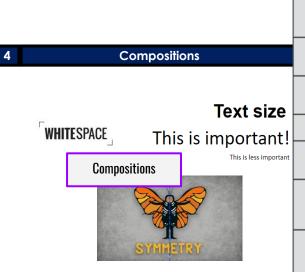
Asset: An asset is a convention/image

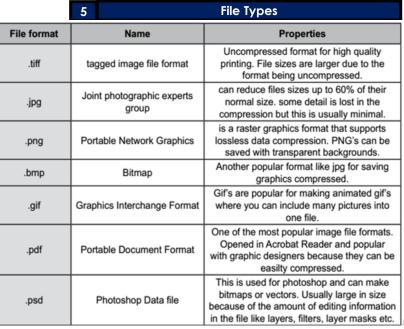


Potential Assets - these are images you are planning to use to create the full digital graphic. These could change later

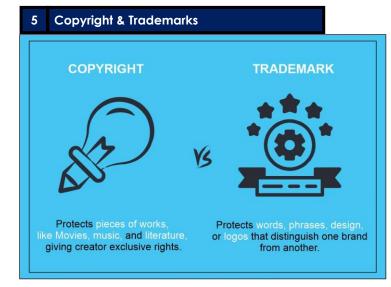
Computing Knowledge Organiser – Digital Graphics

1	TIER THREE VOCABULARY
Legislation	A collection of laws such as Copyright Act,
	Trademark etc.
Mind map	A diagram to show the development of
	ideas from one main point into many sub
	points.
Mood board	Mood boards are physical or digital collages
	that arrange images, materials, text, and
	other design elements into a format that's
	representative of the final design's style
Pixel	A square containing data from an image.
	The more pixels there are in an image, the
	sharper and higher the quality of an image.
Pre-	Process of planning some of the elements
production	involved in a digital media product.
Purpose	What the product is intended to be used
	for or the reason the product has been
	made.
Raster	Also known as bitmap graphics which are
	made up of little squares known as pixels.
Resolution	It is the number of pixels (individual points
	of colour) contained on a display monitor.
	The more pixels an image has, the higher
	the resolution, the bigger the file size of an
	image.
Resources	Physical things that someone might need to
	create a graphic
Rule of	Is when you split an image into nine equal
Thirds	parts.
Symmetry	When elements in your graphic design are
	arranged in the same way on both sides
Target 	This refers to a specific group of people to
audience	whom your end product is aimed at.
Vector	Type of image that is made up of curves
	using mathematical calculations. When a
	vector image is enlarged, the quality is not
	affected. The file size is usually smaller than
Minumbiantia	a raster.
Visualisation	A visualisation diagram shows an idea for
diagrams	how a final graphic should look when
VA/bito areas	designed
White space	Unused space of a layout of a graphic
	design.



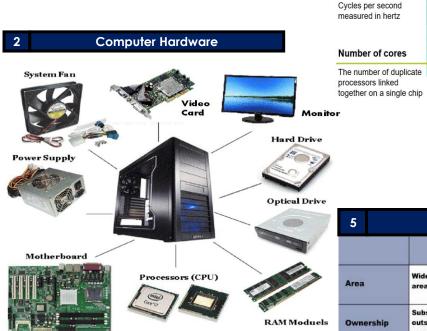


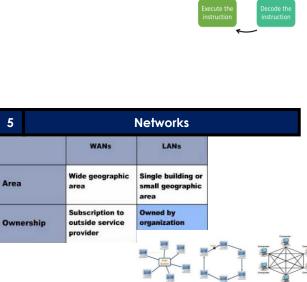




Computing Knowledge Organiser – GCSE Basics

1	TIER THREE VOCABULARY
Abstraction	The process of focusing on the essential features
Abstraction	while hiding unnecessary details.
Algorithms	Step-by-step sets of instructions used to solve a
	specific problem or perform a specific task.
Binary system	A number system that uses only two digits, 0 and
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1, to represent all values in a computer system.
	A system of logic that uses true and false values,
Boolean logic	typically represented as 1 and 0, respectively, and
	logical operators (AND, OR, NOT) to perform
	logical operations.
Cache Memory	Very fast memory location on the CPU that stores
Control	frequently used instructions
Central	The main component of a computer responsible
Processing Unit	for processing data and instructions
(CPU)	The number of FDE evolus a processor can partern
Clock speed	The number of FDE cycles a processor can perform
	in a second Physical devices, such as computers, smartphones,
Computational	tablets, or embedded systems, capable of
devices	processing and executing instructions.
	A problem-solving approach that involves breaking
Computational	down complex problems into smaller, manageable
thinking	parts and using algorithmic thinking to devise
tillikilig	solutions.
	The physical components of a computer system,
Computer	including the CPU, memory, storage devices, input
hardware	devices, and output devices.
	Cultural implications refer to the impact and
Cultural	considerations related to the diverse cultural,
Implications	social, and ethical norms, values, and practices
piications	when developing and deploying computer systems
	Measures and practices designed to protect
Cybersecurity	computer systems, networks, and data from
<i>-</i> ,	unauthorized access, damage, or theft.
	The methods and formats used to encode and
Data	represent data in a computer system, such as
representation	binary, hexadecimal, or ASCII.
	Environmental impact relates to the consequences
Environmental	and effects of technology on the natural
Impact	





CPU

Cache size

memory

Fetch the instruction

MESH

Topology

Superfast working

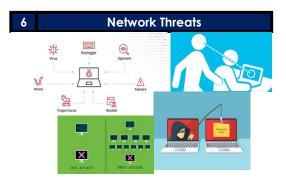
Clock speed



Primary/Secondary Storage

Primary Storage

Secondary Storage



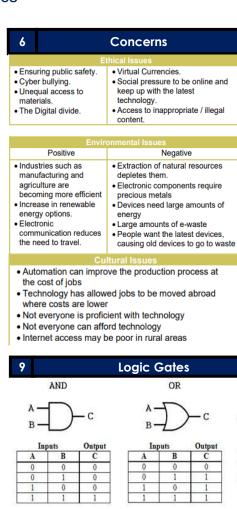
STAR

Topology

Topology

Computing Knowledge Organiser – GCSE Basics

1	TIER THREE VOCABULARY
	Ethical implications refer to the potential
Ethical	consequences or considerations regarding the
Implications	moral principles and values associated with the
	use, development, and impact of technology.
	Devices that allow users to input data into a
Input/output	computer system (e.g., keyboards, mice) or
devices	receive output from the system (e.g., monitors,
	printers).
	A global network of interconnected networks that
Internet	allows for communication and information
	exchange between devices and users worldwide.
	Basic building blocks of digital circuits that perform
Logic` gates	logical operations, such as AND, OR, and NOT,
	based on input signals.
	A collection of interconnected devices, such as
Networks	computers, servers, and routers, that can
	communicate and share resources with each
	other.
Pixel	The smallest unit of an image on a television or
-	computer screen
Primary	Primary storage holds data that the CPU can
Storage	directly access
	The process of identifying, analysing, and solving
Problem-	problems through logical reasoning, critical
solving	thinking, and systematic approaches to reach a
	desired outcome or solution.
Resolution	The number of pixels in an image typically
- Nesolution	expressed as a horizontal x vertical measurement
Router	A router is a networking device that forwards data
	packets between computer networks.
Secondary	Permanently holds data, it is non-volatile – it
Storage	keeps its content when the power is switched off.
Social	the art of manipulating or 'conning' individuals
Engineering	into giving away private information or login IDs
Engineering	and passwords
Sorting An algorithm that puts elements of a list int	
Algorithm	order.
	A network's topology is the arrangement, or
Topology	pattern, in which all nodes on a network are
	connected together.

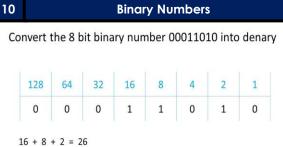


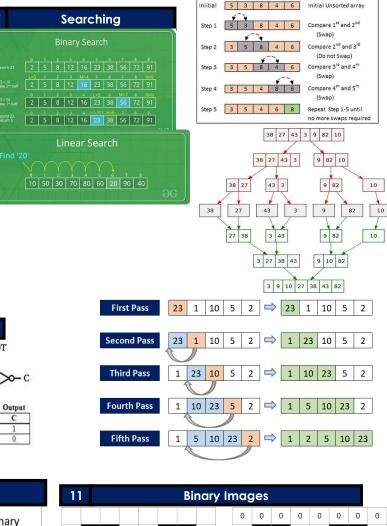
7

NOT

Input

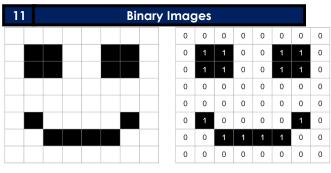
A





Sorting

Bubble sort example



Geography and History Personal Learning Checklists

Geography:	S	0	R	Т
Locate the Middle East and label the major countries				
Describe the main physical and human characteristics of the Middle East Region				
Describe the challenges of living in a Hot Desert Climate				
Describe main changes shown on a climograph of the Middle East				
Identify the characteristics of key biomes found in this region				
Define the terms asylum seeker and refugee				
Describe the journey of refugees and asylum seekers from Syria to Europe				
Describe conflict in the Middle East and identify hotspots				
Explain the importance of the Middle East's oil industry to the rest of the World.				
Explain why conflicts can arise over the supply of oil from the Middle East.				
Give reasons for the Syrian refugee crisis				
Explain reasons for conflict in this region				
Explain why we need to consider sustainable energy options for the Middle East				

History:	S	0	R	_
What was the economic boom?				
Why did prohibition fail?				
What was the impact of the Wall Street Crash?				
How far did the lives of African Americans improve?				
How tolerant are Americans?				
What was the impact of McCarthyism?				
Who shot JFK?				
Why did the USA lose the Vietnam War?				

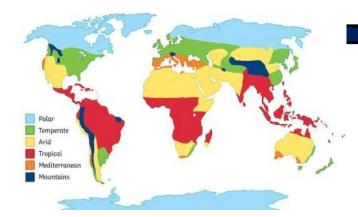
Geography Knowledge Organiser: The Middle East

1	TIER THREE VOCABULARY
Eurocentric	focusing on European culture or history to the exclusion of a wider view of the world; implicitly regarding European culture as pre-eminent.
Climatic zones	areas with distinct climates. These zones might correspond to weather patterns, latitude, or communities of plants and animals.
Climate graph	a graph that shows the average temperature and precipitation for a location over a period of time
Transcontin ental region	Extending/joining two or more continents together
Asylum seeker	a person seeking protection from persecution and serious human rights violations in another country
Refugee	someone who has been forced to flee his or her country because of persecution, war or violence.
Allies	combine or unite a resource or commodity with (another) for mutual benefit. To side with or support.
Conflict	an active disagreement between people with opposing opinions or principles
Fossil Fuels	non-renewable energy sources that are formed from the remains of plants and animals that lived millions of years ago
Non- renewable energy	energy that comes from sources that will run out or cannot be replenished within a human lifetime



Meeting the needs of the present without compromising the ability of future generations to meet their own needs





Conflict in Syria

Global climatic zones

Since the conflict began in 2011, 210,000 confirmed deaths

> 840,000 people have been wounded

\$202.6bn

Total 4 out of 5 Syrians dead/wounded live below the accounts for 6% poverty line of the population

Unemployment has jumped from Economic loss of 15% to 58% approximately between 2010 -14

> Syria's conflict by the numbers

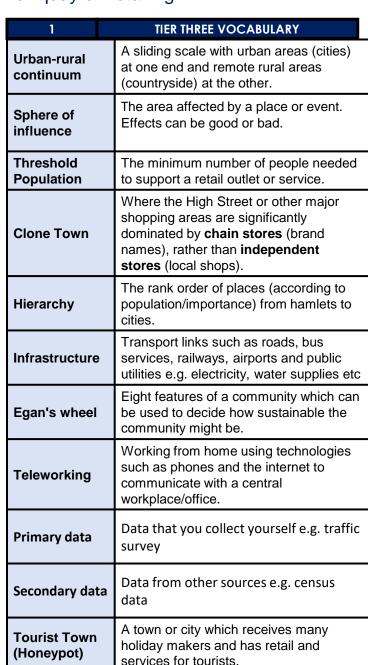
Life expectancy has dropped from 75.9 to 55.7 across a 4 year period (2010 -

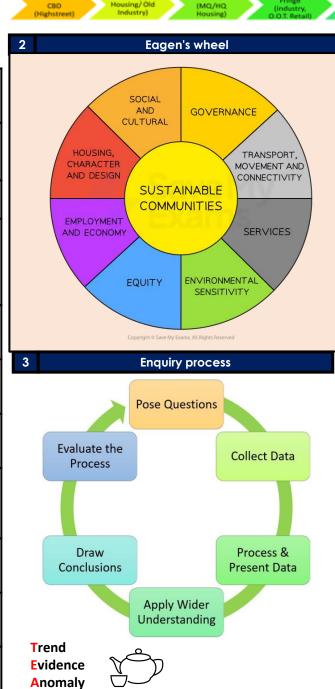
51% of Syrian children did not attend school this academic year

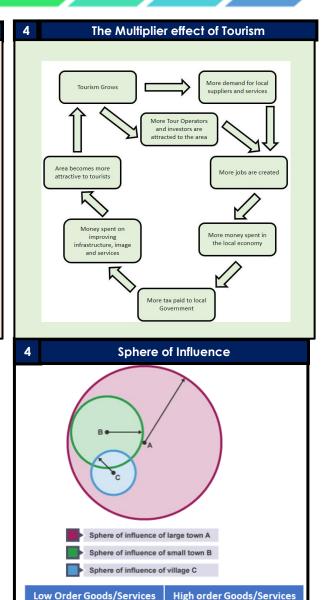
3.9 million registered refugees, second largest refugee population in the world

Geography Knowledge Organiser:

Newquay & Retailing







Rarely buy/visit, Expensive,

Travel far, Comparison,

Furniture, Electricals,

University, Major Hospital,

Airport

Buy/visit frequently,

Cheap, Travel a short distance,

Convenience

Newspaper, Milk, Bread,

Weekly shop, Post Office

Accessible

Deep Green

History Knowledge Organiser

1	TIER THREE VOCABULARY
Roaring Twenties	A decade of economic growth and cultural change in the U.S. during the 1920s, characterized by prosperity and technological advancements.
Prohibition	A period from 1920 to 1933 when the production, sale, and transportation of alcoholic beverages were banned in the United States.
Speakeasy	An illegal bar where alcohol was sold during Prohibition.
Bootlegging	The illegal production and distribution of alcohol during Prohibition.
Wall Street Crash	The sudden and severe stock market crash in October 1929 that marked the start of the Great Depression.
Great Depression	A decade-long period of severe economic hardship and high unemployment that began with the Wall Street Crash.
New Deal	A series of government programs and reforms introduced by President Franklin D. Roosevelt to help the U.S. recover from the Great Depression.
McCarthyism	The practice of making unfounded accusations of disloyalty or communism, led by Senator Joseph McCarthy in the early 1950s.
Red Scare	The fear of communism spreading in the United States, particularly during the early Cold War period.
Harlem Renaissance	A cultural movement in the 1920s that celebrated African American art, music, and literature, centered in Harlem, New York.
Great Migration	The movement of millions of African Americans from the rural South to northern cities between 1916 and 1970 in search of better opportunities and to escape racial discrimination.
Civil Rights Movement	A struggle for social justice in the 1950s and 1960s to end racial segregation and discrimination against African Americans.







Websites

<u>The USA, 1919-1948 - GCSE History - BBC Bitesize</u>

Books

Of Mice and Men – John Steinbeck

Documentaries (YouTube)

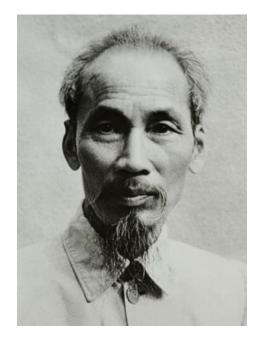
The Century: Americas Time

History Knowledge Organiser

Montgomery Bus Boycott	A civil rights protest in 1955-1956 where African Americans in Montgomery, Alabama, refused to ride city buses to protest segregated seating.
Suburbanization	The movement of people from cities to suburban areas, which became especially common in the 1950s.
Domestic Ideal	The 1950s cultural ideal that emphasized women's roles as homemakers and mothers.
Rock'n' Roll	A genre of music that became popular in the 1950s, known for its strong beat and rebellious themes, appealing especially to teenagers.
Consumerism	The culture of buying and using goods and services, which became particularly prominent in the 1950s.
Bay of Pigs	The failed 1961 invasion of Cuba by Cuban exiles, supported by the U.S., in an attempt to overthrow Fidel Castro.
Vietnam War	A prolonged conflict from 1955 to 1975 between communist North Vietnam, supported by its communist allies, and South Vietnam, backed by the United States, ending with the withdrawal of U.S. forces and the unification of Vietnam under communist control.
Ho Chi Minh Trail	A network of jungle paths used by North Vietnamese forces to transport supplies and troops during the Vietnam War.
Napalm	A highly flammable sticky jelly used in incendiary bombs and flamethrowers, used extensively during the Vietnam War.
Rolling Thunder	A sustained bombing campaign against North Vietnam by the U.S. during the Vietnam War, starting in 1965.
Booby Traps	Hidden explosive devices or traps designed to cause injury or death, used extensively by both sides in the Vietnam War.
Fidel Castro	The communist leader of Cuba who came to power in 1959 and was a central figure during the Bay of Pigs invasion and the Cuban Missile Crisis.







<u>Websites</u>
The USA, 1919-1948 - GCSE History BBC Bitesize

Books

One Minute to Midnight – Michael Dobbs

<u>Documentaries (YouTube)</u> The Century: Americas Time

French Personal Learning Checklists

A l'horizon (Work and careers)	S	0	R	Т
Discuss future plans and ambitions using the near future tense				
Form and use the simple future				
Use future expressions and si clauses to talk about future plans				
Talk about languages and travel.				
Discuss why it is important to learn a language				
discuss options.				
List a range of jobs (masculine/feminine nouns)				
Describe a typical day at work in the present tense				
Use common iirregular verbs in the present tense				
Say what you did yesterday at work using the past tense				
Describe my strengths by remembering character adjectives				
Use the conditional tense to say what job I would like to do in the future				
Translate sentences using vocabulary from this topic				
Write a 90 words piece based on the 'Work and Careers' topic				
Talk about carnival in France and French-speaking countries				
USE YOUR VOCAB BOOKLET TO SORT YOUR LEARNING				

Mon job d'été (My Summer Job)	S	О	R	Т
Talk about part-time jobs and pocket money.				
Explain how you help at home.				
Use modal verbs (devoir, vouloir)				
Talk about earning money.				
Say what you spend my money on.				
Apply for a summer job in France.				
Apply for a local job in cafes/campsite.				
Write a CV.				
Use the perfect tense to talk about previous jobs				
Revise how to give personal information.				
Talk about school achievements (revision).				
Use formal language to write a letter of application				
Use negatives				
Take part in a job interview (roleplay)				
Talk about 'le poisson d'avril'				
USE YOUR VOCAB BOOKLET TO SORT YOUR LEARNING			-	

Spanish Personal Learning Checklists

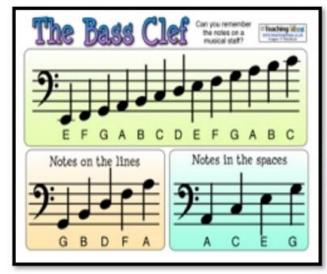
El Trabajo (Work and Careers)	S	0	R	т
Talk about new year's resolutions using the near future tense				
Talk about my future using the near future tense				
Form and use the simple future				
Use future expressions and si clauses to talk about future plans				
Talk about why languages are important				
List a range of jobs (masculine and feminine nouns)				
Use the conditional tense to say what job I would like to do in the future				
Describe my strengths by remembering character adjectives				
Describe a typical workday in the present tense				
Translate sentences using vocabulary from this topic				
Use lo+adjective				
Write 90 words about work and careers				
Describe a photo about jobs				
Perform a role play about work				
Talk about how carnaval is celebrated in spanish speaking countries				
Use your vocab booklet to sort your learning				

Un Trabajo de Verano (A Summer job)	S	0	R	Т
List a range of part-time jobs				
Describe what I do to help at home				
Use se debe / tengo que				
Use negatives				
Talk about earning money				
Explain how much money I receive for my job/pocket money				
Talk about what I spend my money on				
Apply for a summer job in spain/locally				
Write a CV				
Revise personal information and talk about achievements				
Use formal language to write a letter of application				
Understand how to form the perfect tense				
Use phrases to take part in a job interview				
Give information about semana santa in spain and spanish-speaking countries				
Give information about la feria de abril				
Use your vocab booklet to sort your learning				

Music and REP Personal Learning Checklists

Music Baroque Elegance Pachelbel's Canon	S	0	R	Т
Identify Baroque instrumentation				
Identify and perform a ground bass line				
Identify at sight and aurally recognise block chords and broken chords				
Perform and maintain my part in a class ensemble				
Identify/demonstrate a conjunct/disjunct melody				
Identify and demonstrate the following textures: Monophonic, Homophonic, Polyphonic				
Create a new arrangement of Pachelbel Canon featuring a range of given melodies				
Extension: compose/improvise new melodies over the given ground bass				
GROUP TASK: Rehearse and perform an arrangement over the ground bass as an ensemble group featuring a range of timbres, textures and melodies.				

REP Spirituality in Cornwall	S	O	R	Т
Explain what a Pantheon is				
State the name and roles of Pagan deities				
Explain the role of pre-Christian beliefs in Cornish culture				
Give three examples of Cornish folklore festivals				
Retell two of the Cornish folktales				
State 5 features of the story of St. Piran				
Know what the Cornish flag is and what it represents				
Understand what a Saint is and why there are so many Saints in Cornwall				
Explain the cultural and spiritual relationship between Cornwall and King Arthur				
Describe Who John Wesley is and what he contributed to Christianity in Cornwall				
Describe some of the key features of Truro Cathedral				
Describe the history and purpose of Truro Cathedral				

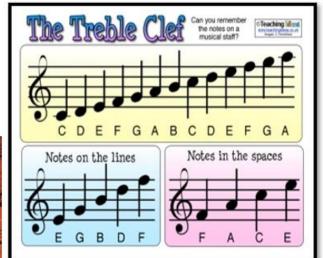


Baroque Elegance

1600 -1750

Pachelbel's Canon





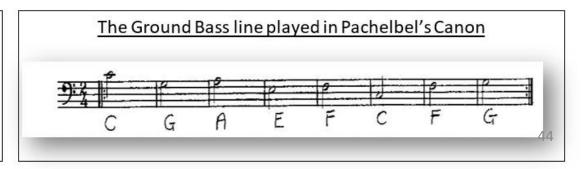
Glossary	
The Baroque Period	A period of Music dating roughly from 1600 to 1750
Ground Bass	A bass line which is repeated over and over again throughout a piece of music
Variations	Melodies which constantly change and develop each time they are heard, adding interest to the music
Polyphonic	A textural device meaning many sounds being played at once
Canon	Another word for a round. Several instruments play the same part entering in sequence
Harpsichord	A keyboard musical instrument in which strings are plucked instead of hammered. It was one of the most important keyboard instruments in European music from the 16th through the first half of the 18th century
String Quartet	A musical ensemble made up of 4 string instruments. Most commonly violin, viola, cello and double bass

Further Baroque Listening

Handel - Messiah

Bach – Brandenburg Concerto No.5

Vivaldi - Four Seasons



Lesson 1 – What does it mean to be Cornish?

Neolithic – final stage of the stone age where permanent settlements began to be established

Megalith – a neolithic stone monument, often a large stone placed upright in a pattern or as a marker (Stone Henge is an example of a megalith)

National Census – a once-in-a-decade survey that informs the government of the socio-economic structure of the country. The last census was in 2021

Devolution – giving regions such as Cornwall more say in local policies and how government funding is distributed.

Lesson 2 - Paganism

Paganism – a collective term for belief systems that focus on nature worship. Paganism had and continues to have a strong presence in Cornwall

Samhein Festival – the pre-Christian version of Halloween which marks the end of the harvest around the time of the Autumnal equinox

Town Pellar - A local Cornish term for the 'village witch'. The Town Pellar was a practitioner of natural medicines and remedies that people would go to before modern medicine was invented. The Town Pellar is still a profession today.

Lesson 3 - Cornish Myths and Legends

Folklore – traditional beliefs and practices done by people in a specific region

Folktale – a traditional story told by people from a specific area. The story will often have geographical or chronological importance.

Mythology – A narrative told to entertain but also to convey understanding of an idea or concept

Lesson 4 - St. Piran

Saint – a virtuous or Holy person who has performed service in aid of Christianity. Saints are elevated to heaven before Judgement Day and can be prayed to or asked for help in the form of guidance or miracles.

Beatification – the first act of a person becoming a saint. This usually takes place after death but not always.

Canonisation – the declaration by the Pope that a person is now recognised as a Saint.

Proselytising – The act of preaching the word of God to people in an effort to convert them to Christianity

Lesson 5 - Methodism

John Wesley – An 18th Century Christian theologian and cleric who established Methodism

Methodism - a simpler form of Christianity that focuses on the words of Jesus and avoids traditionally complicated and confusing religious rituals.

Lesson 6 - Truro Cathedral

Cathedral – a Church with a Cathedra (throne) – the formal seat of a Bishop.

Bishop – a senior priest within the church who oversees a diocese (large number of parishes) and is responsible for running the Church

Parish – a local area attended to by a priest.

Art Personal Learning Checklists

Art Portrait Print	Evidenced	Refined
I am building on my prior knowledge of		
Analysing artists' styles to influence my own work.		
How to use secondary sources to develop ideas.		
Collage skills to create backgrounds.		
How to use compositional skills to present outcomes effectively.		
I am developing my skills in		
Sketchbook presentation and artist studies.		
Exploring Lino cutting and printing techniques.		
Producing a series of creative outcomes using experimental backgrounds.		
How to present work through critical selection.		

Art Pop Art Text	Evidenced	Refined
I am building on my prior knowledge of		
Analysing artists' styles to influence my own work		
Using secondary sources to develop ideas		
Drawing for design purposes		
Compositional skills		
Understanding Proportion		
I am developing my skills in		
Exploring text and typeface		
Problem solving		
Creating a personal outcome linked to a positive message		
Use of colour, pattern, layers in a Pop Art style		
Cutting skills to produce stencils- understanding of bridges		
Use of registration to layer stencils successfully		

TIER THREE VOCABULARY Analyse - examine (something) methodically Analyse and in detail, typically in order to explain and interpret it. Composition is the arrangement of elements Composition within a work of art. The term contemporary art is loosely used to refer to art of the present day and of the Contemporary relatively recent past, of an innovatory or Art avant-garde nature Designs are plans to explain your ideas in a **Designs** visual way. Expression is something that expresses or **Expression** communicates ideas or feelings. German Expressionism was an early twentieth century German art movement that emphasized the artist's inner feelings or German **Expressionism** ideas over replicating reality, and was characterised by simplified shapes, bright colours and gestural marks or brushstrokes Influence is to be inspired by the style of art Influence styles and movements. A linocut is a relief print produced in a manner similar to a woodcut but that uses Linocut linoleum as the surface into which the design is cut and printed from Medium can refer to both to the type of art (e.g. painting, sculpture, printmaking), as Medium well as the materials an artwork is made from

Techniques and skills: Lino Printing

Front cover- best image and title.

Explore colour & triangle corners.

Ripped papers and strips of paper to add borders.

Match colours and mount.

Rip and layer prints.

















Sheet of acetate





Listen for the swooshing sound

and look for the little waves in

the light







Health and Safety

LINOLEUM BLOCK SAFETY

Follow these five tips to safely cut a linoleum block for printmaking





- Push the blade away from your body when carving.
- Never put your hand on the other side of the blade.
- Let your hand glide along the surface instead of pushing down.
- 4. Store unused blades properly.
- 5. Put away each blade after it is being used.

1 Continued	TIER THREE VOCABULARY	
Mood	Mood – the general atmosphere, or state of mind and feelings, that a work of art generates. For example, the mood of a painting could be disturbing or tranquil, dark or energetic.	
Portrait	Portrait - A portrait is a representation of a particular person. A self-portrait is a portrait of the artist by the artist	
Printmaking	Printmaking - A print is an impression made by any method involving transfer from one surface to another	
Proportion	Proportion - Proportion is the relationship of one part of a whole to other parts	
Refine	Refine – to improve your artwork	
Tone	Tone - The lightness or darkness of something – this could be a shade, or how dark or light a colour appears	
Mixed media	Mixed media is a term used to describe artworks composed from a combination of different media or materials	
Monochromatic	Monochromatic - containing or using only one colour.	
Woodcut	Woodcut is a method of relief printing from a block of wood cut along the grain.	
Expression	Expression is something that expresses or communicates ideas or feelings.	

Artists- Contemporary and Historical Printmakers

German Expressionists.

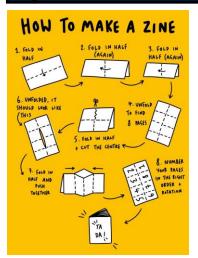








Extension Task



5

Create a zine
with your spare
prints. Use the
Tate link to help
you, add
drawings, artist
images and
information.
Be experimental
exploring colour
and
presentation
techniques.

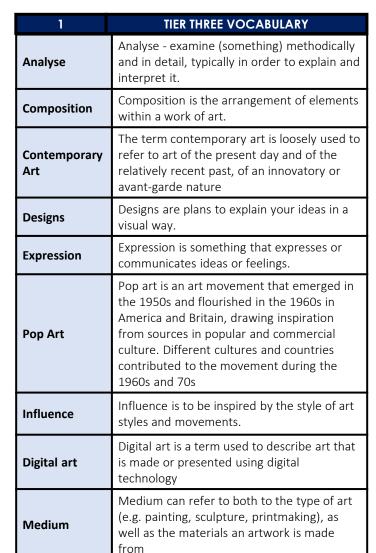


Explore how to make a zine as an alternative presentation technique.

Explore the importance of outcome presentation through BBC Bitesize at GCSE

2

Techniques and skills:





Explore Pop Art and

analyse.





Design and Experiment.

Create and use stencils.



Typeface and Fonts:

Understand the difference and explore within your own work when creating design work.



B Health and Safety

CRAFT KNIFE SAFETY

Keep knife blades sharp

Only use a knife for its intended purpose.

Use the appropriate knife for the job.

Don't cut toward your fingers with the sharp edge.

Always use a cutting mat.

Cut away from your body.

Point the knife blade down and keep the cap

or cover on the knife when carrying.

To hand a knife to someone, set it down on a table and let them pick it up.

Properly dispose of old cutting blades.

Store the knife properly.

1 Continued	TIER THREE VOCABULARY
Ben-Day dots	A commercial printing technique using small dots of colour, named after 19th-century illustrator and printer Benjamin Henry Day. American artist Roy Lichtenstein, enlarged and exaggerated them in many of his paintings and sculptures. Other illustrators and graphic designers have used enlarged Ben-Day dots in print media for a similar effect.
Font	A font is the combination of typeface, size, weight, slope, and style to make up a printable or displayable set of characters. Font characters include letters, numbers, symbols, and punctuation marks. Fonts because can affect readability, influence tone, and reflect professionalism all of which will influence how ideas are communicated
Primary Colours	The primary colours are red , yellow and blue . They cannot be made by mixing other colours together. The primary colours sit equal distances apart on the colour wheel.
Refine	to improve your artwork
Typeface	Typeface describes an entire typography family. For example, Times New Roman is a typeface that defines the shape of each character. Within Times New Roman, however, there are many fonts to choose from, such as different sizes, italic, bold, and so on.
Mixed media	Mixed media is a term used to describe artworks composed from a combination of different media or materials

Artists- Contemporary and Historical







ART MAKES CHILDREN POWERFUL

Richard Hamilton

Andy Warhol

Roy Lichtenstein Bob & Roberta Smith

5 Extension Task



Using the further reading link explore the work of Bob and Roberta Smith more and create a powerful message poster.

LINKS & FURTHER READING



Explore making a protest poster-exploring different text artists.



Explore Pop Art further and create a piece of work in the style of Andy Warhol.

DT Personal Learning Checklists

Food: Meal Planning	S	0	R	Т
I understand what meal planning is and what affects meal choice				
I can follow instructions / read a recipe independently				
I have a basic knowledge of nutrition and how to eat healthily				
I can plan my time well to complete tasks on time				
I can explain why I have chosen a dish or ingredient				
I can evaluate my work identifying my strengths and weaknesses.				
Textiles: Patchwork Cushion		0	R	Т
I can identify and analyse styles of patchwork and the way it has developed				
I will understand & demonstrate how to join fabrics accurately using the sewing machine				
I am able to work to scale and ensure the pattern planned has impact and symmetry				
I understand the importance of precision with cutting and how to use tools to ensure a professional finish				
I am able to use a variety of construction techniques independently				

DT		S	0	R	Т
, t	Analysing the context to establish				
eval	a problem, justified by research				
Key Idea: Identifying a design problem and carrying out relevant research	Analysing products using the ACCESSFM approach				
g a	Examples of primary and secondary research and				
- fyin Tryii	the advantages and disadvantages of each				
Ca Ei	Working properties of materials and choosing				
lde and	the right material for a product				
ea:	Understand the origin of plastics, sustainability,				
Key Idea problem research	the difference between renewable and non-				
Ke pro res	renewable materials				
u.	Generating imaginative ideas using 2D drawing				
gn esig	techniques				
esignesignes	Annotating ideas to explain opinion, materials,				
ng d ativ pin se o	construction methods and target market opinion				
atir iter relo relo	Using compliant materials to model the most				
Key Idea: Generating design ideas using the iterative design process and developing ideas through the use of modelling	successful idea				
Ge ng t ind oug	Understanding scale and being able to produce a				
Key Idea: (ideas using process ar ideas thro	working drawing of the developed design idea				
y Id	Be able to dimension a drawing to show the key				
a p g m	measurements				
	Using marking out tools to accurately mark out				
al ts	the key components of the product				
ctic	Using cutting tools to accurately cut the key				
prac pro	components of the product				
ng ity cial	Using shaping tools to accurately finish				
lopi Iual mer	components to correct dimension				
Key Idea: Developing practical skills to make quality products which are commercially viable	Assembling the product using permanent and non-permanent joining methods				
Key Ide skills to which	Understand the reasons for and be able to apply a high-quality surface finish				

51

DT Knowledge Organiser: Food Meal Planning

Key Terms	Description
Allergies	When a person's immune system reacts strongly to certain foods causing symptoms like difficulty in breathing, swelling or hives
Ethical	Relating to moral principles
Cultural	Relating to the ideas, customs, and social behaviour of a society.
Vegan	A strict vegetarian who consumes no food that comes from animals. (such as meat, eggs, or dairy products)
Budget	How much money you have to spend on certain items- eg food
Cross Contamination	Transfer of bacteria from one source to another. Use of different coloured chopping boards.

Skills	Use in the lesson
Knife skills	Use of bridge and claw holds for safe cutting.
Sauce making	Reduction method to thicken curry sauce
Whisking	Making a swiss roll rise by aeration of the eggs and sugar.
Folding in	Gently mixing the flour into the mix without bursting air bubbles.
Presentation skills	Improving how the food looks- adding colour.
Safe use of meat	Safe storage and cooking.



Plan and make task
in preparation for KS4
Hospitality and Catering
Suitable menu
choice, justification for choices,
planning the practical
session, producing the dishes,
evaluation.

DT Knowledge Organiser: Textiles

Techniques	Explanation
Templates	Made with squared paper for accuracy and used to cut the fabrics
Pins	Used to hold the template to the fabric for cutting
Fabric shears	Used to cut through the layers of fabric, usually 2 to save time
Sewing machine	A straight stitch used to create stable and straight seams
Seam	Usually sewn with a 10mm allowance so accuracy is maintained
Hem	A neatly finished visible edge









DT Knowledge Organiser

1. Research sources

Primary research sources:

- · Interviews
- Questionnaires
- Surveys
- Focus groups
- · Case studies
- · User observations
- · Product testing and trials

Secondary research sources:

- Government data
- Articles from books, magazines and the internet
- · Company reports
- Exemplar work from others

Advantages

- · Data is up to date and relevant
- Questions and surveys can be tailored to specific needs

Disadvantages

- · A large number of people are needed
- · Data gathering is time consuming

Advantages

- · Data is already collated and available
- · Data may be free or low cost
- Huge amount of research is available and accessible

Disadvantages

- Data may not be up to date
- Data may not be specific to company needs
- · Data is available for all

3. Working properties and tier 3 vocabulary

Definition	Property	Examples
The ability of a material to be stretched or drawn or pulled without breaking.	Ductility	Copper because it can be drawn out to make wire.
The ability to return to its original shape after stretching or compression.	Elasticity	Lycra is used for sportswear to provide freedom of movement.
The ability to withstand impact, wear, abrasion and indentation.	Hardness	Tungsten, used for knives, drills and saws.
The ability to be bent and shaped without cracking or splitting.	Malleability	Gold, copper, silver and lead can all be easily hammered into shape.
The ability to withstand a force such as pressure, compression, tension or shear.	Strength	May be strong in one force and not another. Concrete is strong under compression, but not tension.
The ability to absorb shock without fracturing	Toughness	Kevlar body armour absorbs impact.

2. Product analysis

We use ACCESS FM to help us write a specification - a list of requirements for a design - and to help us analyse and describe an already existing product.





is for Aesthetics



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



for Cost



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



is for Customer



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



is for Environment



Environment means will the product affect the environment? Is the product: Recycloble? Reuseoble? Repairable? Sustainable? Environmentally intendity? Bad for the environmentally intendity? Bad for the environmentally intendity? Recycle / Reuse / Repair / Rethink / Reduce / Refuse



or Size



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



is for Safety



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



is for Function



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



is for Material



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

4. The age of plastic

For more than 50 years, the global production and consumption of plastic has continued to rise. Approximately 300 million tons of plastic is produced each year, plastic is relatively inexpensive to produce and very versatile.

What are polymers?

Polymers are mostly synthetic materials. They are usually derived from finite resources such as coal, natural gas or crude oil. More renewable and sustainable materials such as vegetable starches are being used to make bio-plastics.

Renewable and non-renewable materials

Materials which can be 'grown' are classed as renewable. This includes timber and paper. It also includes materials which are derived from animals such as wool and leather as we can grow more animals. Non-renewable materials are materials which cannot be recreated in the human life-time. Examples are metals and plastics. Energy sources sources as oil, coal and gas are also non-renewable.

Drama Personal Learning Checklists

Drama Blood Brothers		0	R	Т
I can describe the plot, characters and themes of this GCSE text				
I can describe the class system in Britain through the exploration of complrehensive and private education				
I can apply theatrical skills to show character status in performance				
I can block a duologue/group performance to create meaning for an audience				
Performing/Directing a text		0	R	Т
I will understand the plot of a set text				
I have an understanding of at least one key character in the play				
I will have blocked a key scene with a partner/in a group				
I have worked with a director to show that I understand how to respond to feedback				

Facts about Willy Russell The Playwright

- British playwright
- •Born in 1947
- Brought up near Liverpool
- Working class parents
- Troubled up bringing

One of the playwright's aims is to show us that there are disadvantages to being poor and working class.

The failure to succeed in life is not because of a lack of ability, but a lack of opportunity. This can clearly be seen in Edward and Mickey.

We must ask ourselves whether this is still true in the 21^{st} century.









Drama Key Vocabulary

Glue your timetable here