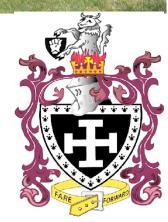


Inspiring Education for All

Name:

Tutor:

Ready, Responsible, Respect



Your Knowledge Organiser

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How to Use Your Knowledge Organiser

Self -Quizzing

Your Knowledge Organiser contains all of the key information you need to know for each subject area.

Your Knowledge Organiser will allow you to revise this key information and make sure it is stored in your long-term memory

The best way to use this resource is by self-

Learning Cycle 2

quizzing.

"look, cover, write and check"

Look, Cover, <u>Write</u>, Check, Correct

First, look through and read the information on a section of your Knowledge Organiser



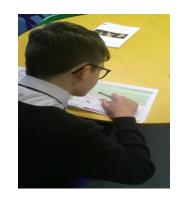


earning Cycle 2

Then, cover the section so you can no longer see the information

Next, try and **write out** the key definitions or facts that you need to know





Now, uncover the section of your Knowledge Organiser and check how correct you were

Finally, correct anything that you wrote down that was incorrect in **purple**

Surrealism 1905-1920

Surrealism	A 20th-century art movement inspired by the subconscious mind, for example by the strange juxtaposition of objects and
	images. It started in Paris, France and later spread across Europe. Surrealist painters thought that powerful feelings could
	be expressed through dream-like paintings where ordinary objects were shown in impossible situations.
Juxtaposition	Two things being seen or placed close together with contrasting effect
Conscious	To be aware of reality
Symbolism	The use of symbols / ordinary objects to represent extraordinary ideas or qualities
Subconscious	Unaware of reality, dream like
Dream like	Painting familiar objects, animals and people in scenes that do not make sense
Metamorphosis	A change of the form a thing or person into a completely different one

Artists

Salvador Dali	Considered by many to be the greatest of the Surrealist painters, Salvador Dali was a Spanish artist who embraced the idea
	and art of Surrealism
Rene Magritte	Magritte was a Belgian artist who liked to challenge people's ideas on what they should see through his Surrealist painting
Meret	German-born Swiss artist whose fur-covered teacup, saucer, and spoon became an emblem of the Surrealist movement
Oppenheim	

Techniques

Art

Tone	Tint	One point perspective	Depth	
Tone refers to the light and dark values used to create a realistic object	A tint is where an artist adds a colour to white to create a lighter version of the colour	A drawing has one-point perspective when it contains only one vanishing point on the horizon line	Refers to the perceived distance between the background and the foreground of a composition	







Ambition

"Inspiring Education for All"

Community

Computational Thii

1) What is Computational Thinking? - Is a way of solving complex problems that are difficult to understand

- Creation of Algorithms to solve a problem.
- Breaking the problem down into small chunks that can be rebuilt
- Looking for patterns in these smaller chunks. Have we solved anything before?
- Focus only on the important detail

2) Decomposition

Yeovil News:

Armed Robbery at Town jewellery store

To break down the problem (decompose it) the police would think about:

- what crime was committed
- when the crime was committed
- where the crime was committed
- what evidence there is
- if there were any witnesses
- if there have recently been any similar crimes

kėy words:

Pattern Recognition - When two or more things have something in Decomposition - Breaking down a problem into smaller chunks Abstraction - Taking away unnecessary parts of a problem common Algorithms - a process or set of rules to be followed in calculations or other problem-solving operations

3) Pattern Recognition

solve problems. A pattern occurs when two or more things have something in Finding patterns makes it easier to common.

Think:

Which of the following contains a pattern and why?

- Buckler's Mead is a school
- Buckler's Mead and Preston are schools

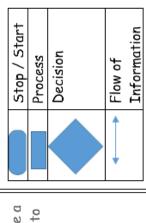
4) Abstraction

taking a complex problem and removing make the problem a little simpler to all of the specific detail to try and In computing, abstraction involves understand. For example, when trying to describe a cat in general terms, you don't need to know exactly how big it is or what colour its fur is.



pictorial way that should create an Algorithm in a Flowcharts help us to 5) Flowcharts be easy to follow. um on lights Start For Example

Symbols:



Computing

Year7 Cooking	 Sharp knives: never walk around with a knife. Use the bridge
A. f. t.	hold and claw grip to cut safely.
Sarety	 Grater: hold grater firmly on a chopping board. Grate food in
There are many hidden, obvious and potential hazards in a	one direction and leave a small amount at the end to prevent injury to knuckles.
kitchen.	 Hot liquid: drain hot liquid carefully over the sink using a
Language Language Language Language Language	colander.
identily a Kitchen nazard and suggest	 Saucepans: turn panhandles in from the edge, so they are not
	knocked.
	 Hot equipment: always use oven gloves when placing food in
	and out of the oven.
	 Spills: wipe up immediately.
	Electrical equipment: always follow instructions
Key Terms	1. The exchange of heat by direct contact with foods on a
1.Conduction	surface: e.g., stir-frying or plate freezing.
2. Convection	2.The exchange of heat by the application of a gas or liquid
	current e.g., boiling potatoes or blast chilling
3.Heat transfer	
	Transference of heat energy between objects.
4.Radiation	
	4. Radiation is energy in the form of rays e.g., grilling.

Keyword	Definition
Client	The person/people/audience being designed for and whose needs are being met.
Functionality	How well a product carries out its purpose.
lterative design	Design methodology based on a cyclical process of analysing, prototyping and testing to refine a product. Each iteration and result starts the process again.
Nesting	The tessellation of shapes or nets on a material to minimise the amount of waste during manufacture.
Primary source	Research collected first-hand by a designer to develop a product or idea.
Prototype	An early model or sample of a product used to test a concept.
Tolerance	The minimum and maximum measurements that can be accepted when manufacturing.
Balanced diet	A diet which provides all the necessary nutrients in the correct amount/proportions to meet the body's needs.
Eat well guide	Informs individuals of the variety of food groups required for a healthy balanced diet.
Nutrients	The properties found in food and drinks that give nourishment — vital for growth and the maintenance of life. The main nutrients needed by the human body are carbohydrates, proteins, fats, vitamins and minerals.

Design & Technology

Enjoyment

KEY WORDS OR PHRASES:	5E5;
Mime:	Action without words
Physical Theatre:	Theatre which emphasizes the use of physical movement for expression.
Suspension of	Logically you understand that the drama is not
disbelief:	real but you override this reaction and believe
,	in it anyway.
Empathy:	The ability to understand and share the feelings of another.
Character:	Playing someone different from yourself. A person in a novel, play or film.
Character	The reason behind a character's behaviours and
Motivation:	actions.
Stereotype:	A widely held but fixed and oversimplified image or idea of a particular type of person or
	thing.
Cliché:	Overused and unoriginal.
Spontaneous	completely unplanned
Improvisation:	
Polished	Refinement through rehearsal, of characters,
Improvisation:	scenarios, and dialogue without a script.
Genre:	A style or category of drama.
Proscenium Stage:	Where curtains are used to separate the stage and the audience.
Blocking:	Where an actor stands in front of another actor and blocks the audiences view. It also means when the Director organises the practise movement of actors on a stage.

	Rapport:	A close and harmonious relationship in which the
		people or groups concerned understand each
		other's feelings or ideas and communicate well with
		each other.
_		It is when the performers 'connect and
		communicate' with an audience and the audience
Ħ		are interested in and engaged with the
a		performance
	Script:	The written text of a play, film, or broadcast
55	Stage Direction:	An INSTRUCTION in italics and often found in
		brackets.
	Monologue:	A long speech by one actor in a play or film
D.	Duologue:	speaking roles for only two actors
	Narration.	Explaining the action in a play
_	leacher in role:	leacher playing a character.
	Writing in role:	Writing as a character.
	Hot seating:	A character or characters, played by the teacher or a student, interviewed by the rest of the group.
	Role on the wall:	The outline of a body is drawn. Words or phrases describing the CHARACTER are then written directly
		onto the drawing or stuck on with post-its.

Vocal Skills: TTVPAS	
Tone:	Overall quality, strength and
	pitch of a voice e.g. angry or
	frightened tone of voice
Tempo:	The rhythm of your speech e.g.
	slow with pauses
Volume:	How loudly or quietly we say
	something for effect
Pitch:	Higher and lower notes
Accent:	The sound of voice according to
	region e.g. Cockney accent
Stress:	The particular weight and
	emphasis we give to individual
	words or phrases

Movement Skills: PAWSBF	WSBF
Posture:	How a character may stand or sit e.g. crouched; straight backed
Angle:	The position of characters' on stage in relation to the audience E.g. Side on
Walk:	This movement includes tip-toe; shuffling; or being Flat-footed
Speed:	How slow or fast a character moves
Body gestures:	A single movement made by part of the body E.g. a Wave
Facial gestures:	A single movement made by part of the face E.g. a Smile

ASSESSMENT STRANDS:

GROUP WORK: Your ability to respond, collaborate, develop, and refine work.

Use of drama techniques and theatre KNOWLEDGE AND UNDERSTANDING: vocabulary.

performing both script and devised drama. PERFORMANCE SKILL: your ability to apply a range of theatrical skills when



A Monster Calls Knowledge Organiser

-	ry and Definitions	
Etymology (O	E- Old English, F-French, L- Latin, G- Germanic, A	G - Ancient Greek,
N - Norse		
Pagan	a person holding religious beliefs other than those of the main world religions. Neo- Pagans often honour the Earth.	L: Paganus, rustic villager
Deity	a god or goddess	L: Deus, god (from AG Zeus)
Injustice	absence of justice; violation of right or of	L: in, not/ Justus, right
Vengeance	punishment inflicted in retaliation for an in- jury or offense; retribution	L: vindicare, vindi- cate
Encompass	to enclose, go completely around; envelop	OE: to form a circle
Apothecary	one who prepares and sells drugs or com- pounds for medical purposes	AG: Apotheke, storehouse
Remedy	a medicine, application, or treatment that relieves or cures a disease	L: mederi, heat
Symbol	Something that can represent another con- cept or idea	AG: sumbolon, mark
Keening	intense emotion or feeling	Irish: caoinim, wail
Yew	A coniferous tree with poisonous berries, often linked to folklore	Hebrew: A tree of lamentation in the Eible, shortened over time to 'yew'
Superstition	A belief or practice resulting from igno- rance, fear of unknown, trust in magic or chance, or a false conception of causation	L: super, over/ stition, to stare
Succumb	To yield to superior strength or force or overpowering appeal or desire	L: sucumbere, bring low

SPaG Focus	
Comma	a punctuation mark (,) indicating a pause between parts of a sen- tence or separating items in a list
Synonym	a word or phrase that means exactly or nearly the same as another word or phrase in the same language, for example shut is a synonym of close
Antonym	a word opposite in meaning to another (e.g. bad and good)
Colon	A punctuation mark that connects two clauses and indicates when someone is speaking in a play script.

Context

Historical:

In the book, the monster says that it has been called many names in the past: Herne the Hunter, Cernunnos, and the Green Man. All of these are variations of pagan deities associated with nature. Herne the Hunter is a ghost in English folklore associated with Windsor forest. He is said to have antlers upon his head and ride a horse. Cernunnos is a Celtic horned god. Little is known about this deity other than the fact that it is depicted with the antiers of a stag and is also identified as a god of nature and life. "Herne" may be a cognate of "Cernunnos" and these two deities may have the same origins. The Green Man is a representation of a sculpture or other representation of a face surrounded by or made from leaves, which makes it an apt name for the monster, who takes the form of a yew tree. The Green Man is usually interpreted as a symbol of rebirth or the life cycle, and is often used as a representation of various horned gods (such as Cernunnos or the Greek god Pan). The Green Man is often viewed as a pagan symbol, and yet images of the Green Man frequently appear carved into churches. This fact is also fitting for the story, as the monster takes the form of a yew tree that is found next to a church. Personat: Slobhan Dowd

Personal: Slobhan Dowd planned the novel before she died of cancer herself. Patrick Ness then took on the novel and finished it.

English

Key Terms	
Atmosphere	the layer of air around Earth
Weather	the day-to day condition of the atmosphere
	(e.g. temperature, wind, rainfall)
Climate	the average weather conditions over a long
	period of time usually 30 years
Precipitation	water falling from the atmosphere to Earth's
	surface (e.g. rain, snow)
Air mass	a large body of air that travels from one
	area to another
Prevailing wind	the most common wind direction
Ocean current	a flow of warm or cold water in the ocean
Reservoir	a large lake where water is stored
Water cycle	the cycle of water between the oceans,
	atmosphere and land
Surface runoff	water flowing over the ground (e.g. rivers)
Evaporation	water changing from a liquid to a gas (water
	vapour)
Groundwater	water held underground in soil or in rock
Transpiration	water released from plant leaves into the
	atmosphere
Condensation	water changing from a gas to a liquid (water
	droplets)
Relief rainfall	warm moist air forced to rise over
	mountains, cools and condenses to form
	cloud and rain
Microclimate	weather and climate conditions in a small
	area such as a city or forest
Smog	a combination of smoke (pollution) and fog
Urban heat	concentration of high temperatures
island	recorded in a city
Isotherm	a line on a map joining points with the same
	temperature
Isoline	a line on a map joining points of equal value
Dredge	to clear the bottom of an area of water by
	scooping out mud, rocks and rubbish

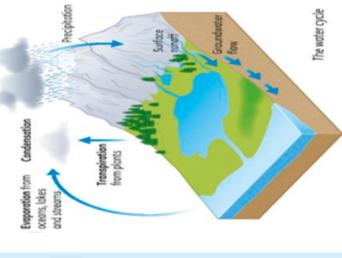
Geography

/ear 7 Topic 2 Weather and Climate in the UK

- Weather conditions can be recorded by measuring temperature, precipitation, wind direction, wind speed and cloud cover.
- The weather is important to many groups of people for different reasons, for example farmers, sportspeople, shop and cafe owners or tourists.
- Weather in the UK is very changeable, due mainly to the effect of several air masses that come from different directions (e.g. Tropical/ Continental/ Polar/ Maritime) see diagram below)
- Urban microclimates are caused by the heat from buildings, roads, vehicles and industry, which can then have an impact on people and the environment.
- Recent examples of extreme record-breaking weather in the UK include the hot, dry summer of 2018 / Beast from the East 2018.







The prevailing wind and North Atlantic Drift ocean current

How did William conquer England?

Key Figures

promised throne in 1051. Became King of England 1066, left no clear heir to the Throne of England. Edward the Confessor – King of England, died in William the Conqueror - Duke of Normandy, after the Battle of Hastings in 1066. Started Norman control of England.

Norway. Believed he had right to the Throne, led and invasion in 1066 when he lost the Battle of Harald Hardrada – Viking warrior and King of Stamford Bridge

Harold Godwinson- Powerful Saxon lord, had links to Edward. Chosen by the Witan to be King in 1066. Lost Battle of Hastings.

Edward the Confessor, very young, supported by Edgar the Aethling – Closest male relative to some Northern English lords.

Key Points

William of Normandy and Godwinson. Resulted in Battle of Hastings (Oct 1066) – Fought between Battle of Stamford Bridge (Sept 1066) – Fought between Hardrada and Godwinson near York. Norman control of England.

England, advised the King and chose the next King. Witan - A group of powerful lords and Bishops in

Succession – When someone new takes the

Heir - Who is next in line to the throne.

Key Words

Infantry - Soldiers who fight on foot, normally

Cavalry - Soldiers who ride horses in battle

Survey - A way to gather information about

people.

with sword and shield.

controlling Northern England, involving murder Harrying of the North - Brutal method of and destroying land.

Feudal System – Hierarchy to organise society meaning the King had total control.

Conquest - Taking control of a country by force.

Peasant – Person who works on the land for

Sishop – High ranking member of the church.

Baron – Rich lord who owned land

others, paid very little.

Domesday Book – A survey to find out who lived in Motte and Bailey Castles – Type of castle built by England and how much they owned.

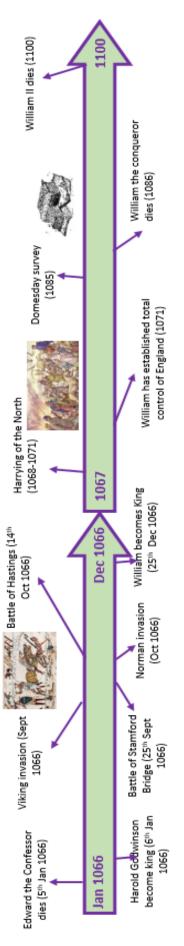
Normans. Two main parts – a hill section (Motte) and a walled section (Bailey).



Key Questions

Who were the Anglo-Saxons? The Anglo Saxons is a term for the English population in 1066. They are named after two German tribes. Where is Normandy? Normandy is an area of Northern France, it was a very powerful area in the 11^{th} Century

Why did William win the Battle of Hastings? There are many reasons, these include having well trained soldiers with better equipment and tactics. William used a trick called the false retreat. Also, the Saxons were tired following the Battle of Stamford Bridge.



History

Community

Mathematics - Year 7

USEFUL WEBSITES:

In Maths you will receive a separate knowledge organiser. Your knowledge organiser will help you to:

Track when you have learnt, revisited and revised a skill Guide your revision when it comes to assessments Identify any gaps where you have missed lessons Know which MET* skills you should be learning

My Maths.co.uk

Password:

My Login:

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the skills you will master during your lessons and how each *The MET (Mathematics Expertise Tower) shows you all skill builds upon the last

It is arranged into 4 topic areas:

Password:

My Login:

Probability & Statistic	
Geometry & Measure	
Algebra & Graphs	
Number & Ratio	

You can see the full MET in the Maths Corridor!

Maths Equipment you must have every lesson:

www.khanacademy.org

www.bbc.co.uk/bitesize

https://corbettmaths.com

Pen, pencil, rubber, ruler, prortactor,

compasses, scientific calculator

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Programme of study and assessment calendar

Maths

Jai passé – I spent (time)

Jai regardé – I watched

J'ai rigolé - I had a laugh

J'ai écouté ~ I listened

What is a good friend for you?

Qu'est-ce que tu fais avec tes amis Tu t'entends bien avec ta famille? Qu'est-ce qu'il y a dans ta ville?

Cest quoi, un bon ami pour toi?

What is (your mother) like?

Who is in your family?

What is your personality?

Quelle est ta personnalité?

es questions:

Décris-toi

3. Qui est dans ta famille? 4. Comment est (ta mère)?

Describe yourself

es activités - activities

Sortir - to go out Jouer - to play

Traîner - to hang out /isiter - to visit

Manger - to eat Aller - to go

Regarder - to watch

Passer - to spend time

Rencontrer - to meet Ecouter - to listen Discuter - to chat

What are you going to do tomorrow?

Qu'est-ce que tu vas faire demain?

12. Qui est ton modèle?

Qu'est-ce que tu as fait hier?

9. Tu veux sortir?

œ

Who is your role model?

What did you do yesterday?

Do you want to go out?

What is there in your town?

Rigoler - to have a laugh

En ville - in town

Les magasins - shops Le café - the café Le parc - the park Le centre commercial - the shopping centre La patinoire - the ice rink Le cinéma - the cinema La piscine - the pool

La poste - the post office Le restaurant - the restaurant | Le stade - stadium Le musée - the museum

Jn demi-frère - a half-Un frère - a brother Un oncle - an uncle Un père - a father Un grand-père - a Un beau-père - a Une grand-mère - a grandmother Une demie-sœur ~ a half-sister Une belle-mère - a stepmother

Une tante - an aunt

stepfather

brother

grandfather

Les appairances - appearances Les cheveux - hair Blonds - blond J'ai- I have

Un hamster - a hamster

Un poisson rouge - a goldfish Un lapin - a rabbit

Un cochon d'Inde - a guinea pig

Un oiseau - a bird

Un chat - a cat

Les animaux - animals

Un chien - a dog

Une tortue - a tortoise

Une souris - a mouse

Un serpent - a snake

Un cheval - a horse

Marron - brown/ hazel Courts - short (hair) Verts - green Roux - ginger

Petit(e) - short (height) es yeux - eyes Je suis - I am Aince - slim

Je suis sorti(e) - I went out J'ai traîné - I hung out Les activités dans le passé - activities in the past J'ai joué ~ I played J'ai discuté - I chatted Je suis allé(e) - I went J'ai mangé ∼ I ate

French В

Une mère - a mother Une sœur - a sister

a famille - family

De taille moyenne - medium build

Grand(e) - tall

Longs - long

Noirs - black

Bleus - blue

Gros(se) - fat

Wie heißt du?	? What's your name?	
Hallo! Hello!		
ch heiße	My name is	
Guten Tag!	Good day! Hello!	
Wie geht's?	How are you?	
Und dir?	And you ?	

Wer ist in deiner Familie? Who is in your family?	ilie gibt es in my family there is/are	hwester my half-sister	der my step-brother	kind I am an only child	schwester a twin sister	ruder a twin brother	sind my parents are		n sein my granddad can be	nich gut mit I get on well with	h mit I argue with
Wer ist in dein	In meiner Familie gibt es	meine Halbschwester	Mein Stiefbruder	Ich bin Einzelkind	eine Zwillingsschwester	Ein Zwillingsbruder	Meine Eltern sind	Meine Oma ist	Mein Opa kann	Ich verstehe mich gut mit	lch streite mich mit

Wo wohnst du?	Where do you live?
Ich wohne in Frankreich	I live in France
du wohnst in Italien	you live in Italy
er wohnt in Spanien	he lives in Spain
sie wohnt in Polen	she lives in Poland
wir wabnen in der Schweiz	we live in Switzerland

WO WOILIST GG.	wilele do you live.		
Ich wohne in Frankreich	I live in France		ei
du wohnst in Italien	you live in Italy		<u></u>
er wohnt in Spanien	he lives in Spain	-	an:
sie wohnt in Polen	she lives in Poland	pue	na /
wir wahnen in der Schweiz	we live in Switzerland	erland	
Wann hast du Geburtstag?		When is your birthday?	r birthday?
Ich habe am elf <u>ten</u> Mai Geburtstag	rtstag	my birthday	my birthday is the $11\underline{th}$ May
Ich habe am zwanzig <u>sten</u> März Geburtstag	rz Geburtstag	my birthday i	my birthday is the 20 <u>th</u> March
am fünfundzwanzig <u>sten</u> Februar	'uar	on the 25 <u>th</u> February	ebruary
heute		today	

l am years old. zwölf dreizehn 13 Er ist vierzehn 14 Sie ist fünfzehn 15 Wir sind sechzehn 16 Sie sind siebzehn 17 Sie sind achtzehn 18 faul neunzehn 19 launisch zwanzig 20 einundzwanzig 22	Wie alt bist du?
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they are

lazy

we are she is he is

moody

What are you like?

ist du?

you are

lam

Was kann dein Haustier machen?	What can your pet do?
Mein Hund kann sehr gut springen	my dog can jump very well
Meine Katze kann Deutsch sprechen	my cat can speak German
Mein Pferd kann schnell laufen	my horse can run quickly
Meine Schlange kann kreativ sein	my snake can be creative
Mein Meerschweinchen kann singen	my guinea pig can sing

	Wie siehst du aus?	What do you look like?
	Ich habe kurze Haare	I have short hair
	Du hast glatte Haare	you have straight hair
	Er hat keine Haare	he has no hair
_	Sie hat graue Augen	she has grey eyes
	Wir haben lockage Haare	we have curly hair
	Ich trage eine Brille	I wear glasses

Do not forget: β = ss ei = eye

au = ow ie = ee

eu = oi

Wie siehst du aus?	What do you look like?
Ich bin groß	I am tall
Ich bin ziemlich klein	I am quite short / small
Er ist nicht dick	He is not chunky
Sie ist ziemlich schlank She is quite slim	She is quite slim
Wir sind mittelgroß We are medium-	We are medium-sized

Keyword	Definition	Not	Notation / Example	ple
Dynamics	The volume of the music	Term	Symbol:	Effect:
		pianissimo	dd	very soft
		piano	ď	soft
		mezzo piano	du	moderately soft
		mezzo forte	fm	slightly loud
		forte	£	loud
		fortissimo	\mathcal{G}	very loud
		fortepiano	df	loud then soft
		sforzando	z_{f_z}	sudden accent
		crescendo	V	gradually louder
		diminuendo	٨	gradually softer
Semibreve	4 beats	7	o	
Minim	2 beats	7		
Crotchet	1 beat	7		
Quaver	½ a beat	7	F	
Semi quaver	½ a beat	4		

Music

KS3 PHYSICAL EDUCATION – KNOWLEDGE ORGANISER AUTUMN TERM All students will participate in at least 4 of the following activities this term. They are Rugby, Hockey, Basketball, Netball and Trampolining	GYMNASTICS: Trampolining	<u>Spotters:</u> stand around the trampoline and ensure that the person on the trampoline is safe at all times. A spotter will prevent the trampolinist from falling off the trampoline if they get too close to the sides or the ends.	Basic Jumps: tuck, pike and straddle Basic landing positions: Seat landing, Front landing and Back landing	Combinations: Seat to front, front to seat, seat \(\frac{2}{2}\) twist to feet, \(\frac{1}{2}\) twist to feet, \(\frac{1}{2}\) twist to front Twists: Swivel hips, Back \(\frac{1}{2}\) twist to feet, \(\frac{1}{2}\) twist	Advanced twists: Roller, Cradle, Cat twist, Half turntable, Full turntable	Basic Somersaults: Mands and knees turnover to feet, back pullover to feet, Back pullover to front, Back to front landing, \(\frac{3}{4}\) front to back landing, Front somersault, Back somersault
KS3 PHYSICAL EDUCATION AUTUMN AUTUMN All students will participate in at least They are Rugby, Hockey, Baske	INVASION GAMES: Rugby, Hockey, Netball and Basketball	<u>Invasion games:</u> Team games in which the purpose is to 'invade' the opposition's territory to score points whilst trying to make sure the other team does not score.	Receiving the ball: when you catch a ball or receive the ball with a stick Passing the ball: throwing a ball to your teammate or passing it with your stick to a teammate.	Spatial awareness: when you recognise your position in relation to your opponent and the ball/object you are playing with. Defending strategies: defending a space or area to	or try line. Attacking strategies: Creating space for yourself and your teammates. Moving into space to receive a pass.	<u>Tackling:</u> forcing your opponent to lose possession of the ball in order for you or your teammates to gain possession.

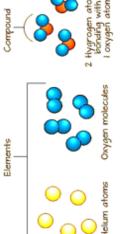
P.E.

Elements

ATOMS, ELEMENTS, COMPOUNDS AND MOLECULES

- Every element is made up of one type of atom.
- The atoms of one element are different to the atoms of all other elements.
- yellow). The properties of an element are the One atom does not have the properties of an together the atoms make gold yellow and element (e.g. gold atoms are NOT shiny or properties of many atoms joined together shiny).
- A compound has different properties to the elements in it.
- is a molecule, but not a compound because it molecules are compounds. Hydrogen gas (H₂) is made of only one element. Water (H₂O) All compounds are molecules, but not all can be called a molecule or a compound because it is made of hydrogen (H) and oxygen (O) atoms.

Science



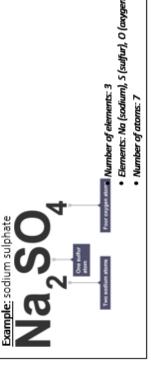
CHEMICAL SYMBOLS

Every chemical symbol starts with a capital letter, with the second letter written in lower case.

MG	×
ше	×
6m	×
Mg	,

CHEMICAL FORMULA

- Shows the elements present in a compound.
- Shows the number of atoms of each element.
- Numbers are written to the right of their chemical symbol
 - Numbers are smaller than the chemical symbol



NAMING COMPOUNDS

(E.g. aluminium + oxygen → aluminium Compounds made up of oxygen and names. The second word is oxide. another element have two-word oxide)

 In any compound of a metal with a non-metal, the end of the name of (e.g. sodium + chlorine → sodium the non-metal becomes –ide. chloride)



Prefix	-ouom	-ip	tri-
Number of Atoms	1	2	3

	KEYWORD	DEFINITION
	Atom	The smallest part of an element that can exist.
	Carbonate	A compound that includes carbon and oxygen atoms, as well as a metal element. There are three atoms of oxygen for every one atom of carbon.
	Chemical formula	A formula that shows the elements present in a compound and their relative proportions.
	Chemical symbol	A one- or two-letter code for an element that is used by scientists in all countries.
	Compound	Pure substances made up of atoms of two or more elements, strongly (chemically) joined together.
	Elements	Substances that all other materials are made up of, and which contain only one type of atom. An element cannot be broken down into other substances.
	Hydroxide	A compound that includes hydrogen and oxygen atoms, as well as a metal element. There is one atom of oxygen for every one atom of hydrogen.
5	Molecules	A group of two or more (up to 1000s) atoms strongly joined together. Most nonmetal elements exist either as small or giant molecules.
	Natural polymers	A polymer made by plants or animals. E.g. starch, wool, cotton and rubber.
	Nitrate	A compound that includes nitrogen and oxygen atoms, as well as a metal element. There are three atoms of oxygen for every one atom of nitrogen.
	Sulphate	A compound that includes sulfur and oxygen atoms. There are four atoms of oxygen for every one atom of sulfur.

properties all the way through

Particle Model

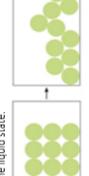






	_						
000	SE5	No fixed shape	No fixed volume	Flow very easily	Not dense at all	Easy to squash	Particles are very far apart
	Liquid	No fixed shape	Fixed volume	Flow quite easily	Less dense	Very difficult to squash	Particles fairly close together
	Solid	Fixed shape	Fixed volume	Do not flow easily	Very dense	Cannot be squashed	Particles very close together

MELTING: As a substance melts, its particles vibrate from their places in the pattern). The substance is faster. The particles start moving around (away now in the liquid state.





0 rule of hydin



boiling point ... you can predict the If you know the melting point and state at any temperature!

Middle of melting and boiling >> liquid Below melting point >> solid Above boiling point >> gas gas bubble liquid.

What is the difference between boiling and evaporation?

of the liquid. They move away from the liquid, spread out and form a gas. It can bubbles rise to the surface of the liquid and escape into the air. It happens only Evaporation → Occurs when particles (with the most energy) leave the surface at the boiling point. Different substances will boil at different temperatures. diagram). The particles in the bubble are spread out. As it boils, the steam **Boiling** → Occurs when bubbles of steam form all through the liquid (see happen at any temperature.

Materials are made of particles. Many materials are mixtures. Some are made up of only one substance.

KEYWORD

- Every substance has its own properties. The properties of a mixture are different to the properties of the individual substances that make it up.
 - The particle model helps us explain these properties.
- Properties of a substance depends on three things: what the particles are like, how they are arranged and how they move.

DIFFUSION

Three factors affect the speed of diffusion:

- Temperature → Occurs more quickly at higher temperatures as the particles are moving faster.
- Particle size → Big, heavy particles diffuse more slowly than small, light
- State of the diffusing substance \rightarrow Occurs quicker in gases than liquids (as the particles in a gas are very far apart). Diffusion does not occur in solids (as particles cannot move).

What is the evidence for particles?

GAS PRESSURE

particles in a fluid (gas or liquid) due to collisions Brownian motion → the random movement of with other particles surrounding them

Molecules of Compound

Molecules of Cleme

=

Colliding gas particles exert

walls of their container.

pressure on the inside of

their container.



Number of particles → The

Factors that affect pressure:



container, the higher the

more particles in a

pressure (this is because

there are more frequent

collisions)

Elements consists of atoms (the smallest particle that can exist).

A molecule is a group of two or more atoms, strongly joined

A compound is a substance made up of atoms of two or more

together (e.g. hydrogen / water)

elements, chemically bonded (e.g. water)



the temperature, the higher Temperature → The higher because the particles have faster and collide with the more energy, they move the pressure (this is

When is evaporation useful?

container more frequently)

- Sweating cools, you down by
- Drying hair with hairdryer speeds up evaporation.

The force exerted per unit area on the walls of a happen at any temperature below boiling point. The different types of stuff that things are made A way to think about how substances behave in other substances and contains only one type of materials are made from. They are too small to A material that is not a mixture. It has the same The change of state from a solid to liquid at the Made up of two or more pure substances that The three forms in which a substance can exist gases spread out through random movement from a region where there are many partides A substance that cannot be broken down into The change of state from liquid to solid at the container. It is caused by collisions of particles The temperature at which a substance melts. The change of state from solid directly to gas. A substance that cannot be compressed and The change of state from gas to liquid. It can The temperature at which a substance boils The process by which a substance changes describes its appearance or how it behaves. are mixed (not chemically joined) together. The process by which particles in liquids or The mass of a material in a certain volume A substance that can flow and can also be A very tiny object (atom or molecule) that A substance that can flow but cannot be A quality of a substance or material that The change of state from liquid to gas. The change of state from liquid to gas. terms of small, moving particles. or one where there are fewer. melting point of a substance melting point of a substance be seen with a microscope. from one state to another. solid, liquid and gas. with the walls. compressed compressed cannot flow from Melt/melting Particle model Condensation Gas pressure Melting point **Boiling point** Sublimation Evaporation Change of Properties Sates of Substance Modure Boiling Diffusion Material Density Bernent Liquid Particle Freeze 몽 matter æ Gas particle collide with the

Science