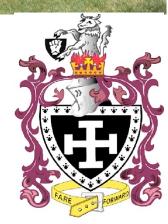


Inspiring Education for All

Name:

**Tutor:** 

Ready, Responsible, Respect



### Ambition

### nccess

### Enjoyment

### **Homework Timetable**

	Week A	Week B
Monday		
Tuesday		
Wednesday		
Thursday		

# Learning Cycle 1

### Your Knowledge Organiser

### Contents

How To Use your Knowledge Organiser For Home Learning	p.4
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Learning Cycle 1

3

### 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-

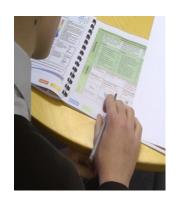
Learning Cycle (

The best way to use this resource is by selfquizzing.

"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



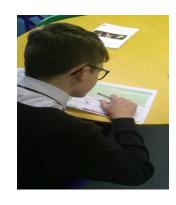


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**Then,** cover the section so you can no longer see the information

**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, c**orrect anything that you wrote down that was incorrect in **purple** 

### Ambition

### Knowledge Quiz

You teacher will quiz you on your knowledge organiser during the learning cycle .

Record your score from each quiz in the mark box.

Quiz 1			
Quiz 2			
Quiz 3			
Quiz 1			
Quiz 2			
Quiz 3			
Quiz 1			
Quiz 2			
Quiz 3			

# Learning Cycle 1

# ii Art - Term 1 - Formal Elements Year /

Primary colours are the 3 main

Colour Vocabulary

but are used to make all other

colours. They cannot be made,

Secondary colours are made by

colours.

mixing a primary and secondary

Tertiary colours are made

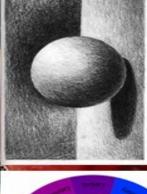
mixing 2 primary colours.

opposite on the colour wheel.

Complementary colours are

colour together.

These are the skills and knowledge you will need to support you in your studies.



each other on the colour wheel. Tint - when you add white to a Harmonious colours are next to colour to make it lighter

### Shade - when you add black to a colour to make it darker

### TONE

something. This could be a shade or how means the lightness or darkness of dark or light a colour appears

ake many forms. e.g. horizontal, diagonal

or curved.

pencil or a brush dipped in paint. It can the path left by a moving point, e.g. a

something feels or looks like it feels. There the surface quality of something, the way

**EXTURE** 

an area enclosed by a <u>line</u>. It could be just an outline or it could be <u>shaded</u> in. are two types: Actual and Visual

SHAPE

a design that is created by repeating lines. shapes, tones or colours.

can be manmade. Ilke a design on fabric, or natural, such as the markings on animal fur.

PATTERN

There are 2 types including Primary and Secondary . By mixing any two Primary ogether we get a Secondary

COLOUR

### Art Technique Key Words

Tone

Colourwheel

The size relationship between different parts - eg height compared to width The way an artist uses tools and materials to create a piece of art The materials and tools used by an artist to create a piece of art The bright or reflective area on an object or piece of The darker areas within a piece of art or object where you place objects on the page Media/Medium Shadow/shade Composition Proportion Technique **Highlight** 

Art & Photography

## Computational Thinking

### 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

### 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

### key 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

**Algorithms –** a process or set of rules to be followed in calculations or other problem-solving operations

### 3) Pattern Recognition

5) Flowcharts

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.

cat in general terms, you don't need to For example, when trying to describe 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 se easy to follow. Start For Example

### Symbols:

	Stop / Start	Process	Decision	→ Flow of	T. C
				•	

### Some foods can be eaten raw and form an Why is food cooked?

need to be prepared and cooked before they are important part of the diet. However, many foods

- make the food safe to eat by destroying pathogenic micro-organisms and toxins;
- destroy microorganisms and enzymes that cause food to deteriorate and therefore increase the keeping quality of the food;
- make the food more digestible and easier to

There are a number of food skills which enable a

Food skills

absorb.

variety of increasingly complex dishes to be

prepared and made.

These can include

beating, combining, creaming, mixing, stirring

kneading, folding, forming and shaping;

blitzing, pureeing and blending.

and whisking:

### Food skills are acquired, developed and secured over time.

### Bridge hold







<b>S</b>	4		1	1	JE)		<b>X</b> S	<b>\$</b>	Ó
Peel	Portion / divide	Prove	Roast	Roll-out	Rub-in	WS.	Snip	Spread	Stir-fry
-1	1.00	4	Ω O			₽	ال	18	9
Mash	Measure	Melt, simmer and boil	Cut out	Cut, chop, slice, dice and trim	Decorate and gamish	Drain	Fold	Form and shape	Fry and saute
		<b>(0</b>	Ė	鱳	<b>()</b>	Þ	1	[	d
Bake	Beat	Bitz, puree and blend	Casserole	Chill	Core	Cream	Crush	Grate	Grill

### Claw grip

### Heat exchange/transfer

Cooking requires heat energy to be transferred from This is called heat transfer or heat exchange. There are three ways that heat is transferred to the food. the heat source, e.g. the cooker hob, to the food

 conduction – direct contact with food on a surface, e.g. stir-frying.

contact with foods on a surface e.g. stir-frying

or plate freezing

Convection: The exchange of heat by the

application of a gas or liquid current e.g.

boiling potatoes or blast chilling

Conduction: The exchange of heat by direct

- transfer the heat energy to the food, e.g. baking; convection - currents of hot air or hot liquid
- radiation energy in the form of rays, e.g. grilling.

these. The amount of heat and cooking time will vary according to the type of food being cooked and the Many methods of cooking use a combination of method being used

Radiation: Radiation is energy in the form of

rays e.g. grilling

Heat transfer: Transference of heat energy

between objects.

recommendations to ensure that dishes/meals are part of a varied, balanced diet Take into account healthy eating Cooking for health

- nutritional needs and preferences of those it is being cooked for? Base your meals on Planning - does the meal meet the starchy food
  - Choosing choose low fat/sugar/salt versions, where possible

fat-based methods of cooking – stir, shallow and

deep fat frying

Vegetable cuts

dry methods of cooking, e.g. grilling, baking

roasting, toasting, BBQ

moist/water based methods of cooking, e.g.

boiling, steaming, stewing, braising;

These are based on the cooking medium used:

Cooking methods

- (try a spray oil) and replace salt with other Preparing - limit the amount of fat added flavourings, such as herbs and spices.
- Cooking use cooking practices which minimise vitamin losses from fruit and reduce the amount of fat needed and vegetables.
- which reflect current healthy eating advice. Serving - serve the meal in proportions Do not forget to include a drink.

dice – 1cm square

batons - 5-6.5cm long x

Hot liquid: drain hot liquid carefully over the sink amount at the end to prevent injury to knuckles.

Saucepans: turn panhandles in from the edge,

using a colander

so they are not knocked.

Hot equipment: always use oven gloves when

placing food in and out of the oven

Spills: wipe up immediately

Grater: hold grater firmly on a chopping board.

Grate food in one direction and leave a small

Use the *bridge hold* and claw *gnip* to cut safely

Sharp knives: never walk around with a knife.

1 cm square

### Healthier cooking methods

Grill or BBQ foods rather than fry to allow fat to drain away

fine julienne – 5-6.5cm

long x 1.5mm square

6.5cm long x 3 mm square

pread

orm and

Electrical equipment: always follow instructions.

B

Mix, stir and shape

Julienne/match stick - 5-

Glaze and

coat

- Drain or skim fat from liquids, e.g. sauces, stews and casseroles
  - Dry fry using non-stick pans, so no need for oil.
    - Oven bake rather than fry.
    - Steam or microwave vegetables.

### **T-Food & Nutrition**

use of the cooker: boiling/simmering/poaching,

rubbing-in and rolling-out:

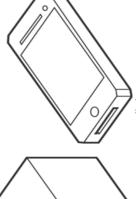
knife skills;

frying, grilling, roasting and baking;

Isometric Drawing There are 3 main rules to isometric drawing:

Vanishing point

- horizontal edges are drawn at 30
- vertical edges are drawn as vertical lines
  - parallel edges appear as parallel lines



together. Unlike perspective drawings, they don't get smaller as the Esometric drawings, sometimes called isometric projections, are a lines go into the distance. Isometric drawings are used to show a architects and engineers to communicate their ideas to the client good way of showing measurements and how components fit graphical representation of a 3D object. They are used by and manufacturer, showing the product or design to scale.

### Success criteria for a good drawing sharpen pencil regularly

shadow Must haves! FIVE tones

Must have... Light Grey midtones White reflection cast shadow Shade in direction of the object

Middle Grey No Smudging CONTRASTS! in tone Dark Grey Black Different mark-making

### which is a point on the horizon line vanishing point, where all lines

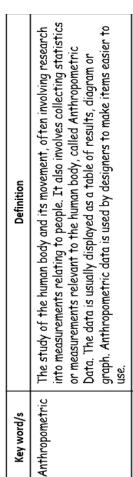
ght source

### Specification

A detailed description of the design and materials used to make something.

### Prototype

An early sample, model, or release of a product built to test a concept or



What does is look like – colour/texture/ shape?	Ergonomics involves the study of people and their relationship with the environment around them. It often involves research into the way people interact with products and the environment. Ergonomic products will by
Aesthetics	Ergonomics

designed with the application of anthropometric data to improve their

human use.

front in a realistic

way as it gets

object from the

This shows an Perspective One Point

smaller going into

the distance. The

front view goes back towards a

Data that is gathered first-hand <b>directly</b> from the client such as a questionnaire.	Data which has come from second-hand sources such as the results of a survey carried out by someone else or data found on the internet.
Primary	Secondary
Research	Research

Client Also known as the user; the person or group of people who will buy and/or use the design solution.
---

When a designer focuses too much on one particular design idea and doesn't consider alternatives.
Design Fixation

A design strategy that follows a make-test-evaluate approach in a

Iterative

design	repetitive cycle until the perfect final outcome is produced.
User-Centred	A design strategy that considers the needs and wants of the user
Design	stage of the design process.

at each

H

### Design & Technology

KEY WORDS OR PHRASES:	SES:	Rapport:
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 real but you override this reaction and helicus	
	in it anyway.	Script:
Empathy:	The ability to understand and share the feelings of another.	Stage Dire
Character:	Playing someone different from yourself. A person in a novel, play or film.	Monologu
Character	The reason behind a character's behaviours and	Duologue
Motivation:	actions.	Narration
Stereotype:	A widely held but fixed and oversimplified	
	image or idea of a particular type of person or thing.	Teacher ir
Cliché:	Overused and unoriginal.	Writing in
Spontaneous Improvisation:	completely unplanned	Hot seatir
Polished Improvisation:	Refinement through rehearsal, of characters, scenarios, and dialogue without a script.	Role on th
Genre:	A style or category of drama.	
Proscenium Stage:	Where curtains are used to separate the stage	Vocal Skill
	and the audience.	Tone:
Blocking:	Where an actor stands in front of another actor	
	and blocks the audiences view. It also means when the Director organises the	Tempo:
	precise movement of actors on a stage.	Volume:
4		

Rapport:	A close and harmonic	A close and harmonious relationship in which the
,	people or groups con other's feelings or ide	people or groups concerned understand each other's feelings or ideas and communicate well with
	each other.	
	It is when the performers 'connect and	mers 'connect and
	communicate' with a	communicate' with an audience and the audience
	are interested in and engaged with the	engaged with the
	performance	
Script:	The written text of a	The written text of a play, film, or broadcast
Stage Direction:	An INSTRUCTION in it	An INSTRUCTION in italics and often found in
	brackets.	
Monologue:	A long speech by one	A long speech by one actor in a play or film
Duologue:	speaking roles for only two actors	ly two actors
Narration.	Explaining the action in a play	in a play
Teacher in role:	Teacher playing a character.	sracter.
Writing in role:	Writing as a character.	
Hot seating:	A character or charac	A character or characters, played by the teacher or
1	a student, interviewe	a student, interviewed by the rest of the group.
Role on the wall:	The outline of a body	The outline of a body is drawn. Words or phrases
	describing the CHAKA onto the drawing or s	describing the CHARACLER 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.

Vocal Skills: TTVPAS  Tone:  Overall quality, strength and pitch of a voice e.g. angry or frightened tone of voice Trightened tone of voice Trightened tone of voice Trightened tone of voice Slow with pauses Stress:  Accent:  The sound of voice according to region e.g. Cockney accent region e.g. Cockney accent region e.g. Cockney accent Phich Pauses Stress:  The particular weight and emphasis we give to individual words or phrases		
	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
emphasis we give to individual words or phrases	Stress:	The particular weight and
words or phrases		emphasis we give to individual
		words or phrases

P	Posture:	How a character may stand or sit e.g. crouched; straight backed
Ā	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
Sp	Speed:	How slow or fast a character moves
Ä	Body gestures:	A single movement made by part of the body E.g. a Wave
묩	Facial gestures:	A single movement made by part of the face E.g. a Smile

Movement Skills: PAWSBF

### ASSESSMENT STRANDS:

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

### KNOWLEDGE AND UNDERSTANDING:

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



Key Terminotogy	& Definitions	
Aetiological	A type of myth that gives a reason or cause for an event.	AG. aitia 'a cause' +-logy 'the study of'
brooded	Thought for a long time about things that make you sad, angry or worried.	OE. meaning 'to sit on eggs with the purpose of hatching them'. The figurative use comes from 'nursing' your anger, the way a mother hen 'nurses' her young until they hatch.
ethereal	Light and delicate, especially in an unnatu- ral way.	AG, aither 'ether' meaning 'upper air' + -al 'relating to'
historical	A type of myth that recalls and recounts an event in history to make sure it is re- membered.	AG. historikos 'narrative'
immortal	Living or lasting forever.	L. im- 'not', mort- 'death'
mortal	Unable to continue living forever.	L. mort- 'death'
prophecy	A statement that says what is going to happen in the future.	AG. prophéteia. Pro 'before', phétés 'speaker'
psychological	A type of myth that explains, or tries to influence, people's behaviour.	AG. psukhé 'breath, soul, mind', -logy 'the study of'
quest	A long search for something that is diffi- cult to find.	L. quaerere 'to ask/seek'
relic	An object or tradition from the past that continues to exist.	L. reliquiae 'remains'
sacred	Considered to be holy and deserving re- spect, especially because of a connection with God.	L. Sacr- 'holy'
warrior	A soldier, usually one who has both experience and skill in fighting.	F. guerreier 'to make war'

SPaG	
Apostrophe for possession	An apostrophe is used before the S to show the possession of one person, 'Thor's hammer' An apostrophe is used after the S to show an object belonging to more than one person, 'Asgard is the gods' home'
Apostrophe for omission	An apostrophe is used to replace a missing let- ter when two words are pushed together to form a contraction. Examples: Do not = don't Have not = haven't Could have = could've

### Roots and Stems

Hydr- meaning 'water.' Greek root.

-ology meaning 'the study of.' Greek root.

Mort- meaning 'death'. Latin root.

### Spettings

Abandoned, distressed, wretched, obeyed, wondered, incensed, deceived, rejected, embittered, diabolical, quest, challenge

### **English**

Key Terms	
Island	Piece of land surrounded by water
Inhabited	A group of people with a strong sense of identity
Nation	A group of people with a strong sense of identity
Region	A large area, often part of a country e.g. the south west of England
County	Historical administrative area such as
	Somerset
Economy	Money
Manufacturing	
Continent	a large landmass, for example Europe
	or Asia
European	a group of European countries whose
Union	governments work together
Trade	buying and selling goods
Imports	goods and services that enter a country
Exports	goods and services that leave a country
Local	a small area such as a housing estate or
Environment	park
Mental Map	a personal memory map of an area
Sketch Map	a map of an area that has not been
	drawn to scale
Redevelop	improve a run-down area, usually in a
	town or city
Re-wilding	restoring and protecting natural
	processes and ecosystems/ habitats
Urban	in towns or cities
Rural	countryside
Rain garden,	an area of grassland, flowers and trees
	that stores and uses up water to
	reduce the risk of flooding
Guerrilla	converting a derelict or abandoned
Gardening	area into a garden, often without legal
	permission to do so
Ordnance	maps – very detailed maps of Great
Survey (OS)	Britain available at different scales
Island	Piece of land surrounded by water

### 1.1 Our Island Home

- The British Isles is a group of islands, the largest of which are Great Britain and Ireland, separated from the rest of Europe
- The UK is made up of four nations: England, Scotland, Wales and Northern Ireland. Each nation is further divided into regions and counties.



The UK has a huge variety of landscapes, traditions and cultures, which make it very popular with visitors from around the world. When you give a grid reference, always give the easting first: "Along the corridor and up the stairs"

- want (red circle). Write this number down.
  - this grid line and add it Look at the number of square you want.
    - have. This is your fourfigure grid reference. number you already to the two-digit

to be even more accurate. In this case you can imagine that each grid is divided into 100 tiny squares. The distance Sometimes it is necessary

### between one grid line and the next is divided into tenths. Six Figure Grid References

- First, find the four-figure grid reference but leave a space Give the six figure grid reference for the Information Centre

  (i)

  1. First, find the four-figure grid reference but leave a space after the first two digits.
  - square your symbol lies. Write this number after the first Estimate or measure how many tenths across the grid two digits.
- Next, estimate how many tenths up the grid square your You now have a six figure grid reference. In this instance, symbol lies. Write this number after the last two digits.
- the tourist information office is located at 476334

### 1.3 Exploring the local environment

the European Union in 2019. 2016, the UK voted to leave Following a referendum in

- Local environments can be redeveloped to make them more attractive places to live.
  - If there is an old factory like the Old Glove Factory in Yeovil it can be redeveloped to make it useful and better for the environment
- through new housing, laying patios in gardens instead of The environment is currently at risk at being destroyed Adding rain gardens to land will help improve the local grass, new roads etc.
- into and provides a habitat for animals and insects such as Helps reduce flooding in areas as rain gardens absorb the bees that are essential for life.

### Learning about the UK using OS maps

Four and Six Figure Grid References Measuring distance on a map using the scale line Measuring Distance: Scale and distance



Most maps have a scale.

These help us to work out distances on maps. This is given by the scale statement (eg 1:25,000) and/or by showing a scale bar

The scale shows how much bigger the real world is than the map.

### Grid References: Things to remember:

### Four Figure Grid References

- you get to the bottom-left-hand corner of the square you Start at the left-hand side of the map and go east until
  - Move north until you get to the bottom-left corner of the

Having links with Europe, the UK has many benefits such as

the Europe and outside.

tourism and trade

The UK trades with a whole range of countries both within

cultural links with one another.

Union. These countries have close economic, scientific and

Many of the countries in Europe belong to the European

The UK is part of Europe.

1.2 The UK in Europe

In this case, the four figure grid reference is 48,33.

# environment as there will be somewhere for water to soak

Year 7 Topic 1 Introduction of the UK

### Geography

oads and bridges.

Key Terms	
Atmosphere	the layer of air around Earth
Weather	the day-to day condition of the atmosphere
	(eg 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 (eg rain, snow)
Air mass	a large body of air that travels from one
	area to another
Prevailing wind	the most common wind direction
Ocean	a flow of warm or cold water in the ocean
current	
Reservoir	a large lake where water is stored
Water cycle	the cycle of water between the oceans,
	atmosphere and land
Surface	water flowing over the ground (eg rivers)
Evanoration	water changing from a liquid to a gas
Evaporation	water crianging norma inquid 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
Pollution	harmful substances entering the
	environment
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
Isohyet	a type of isoline joining points having the
	same amount of rainfall
Dredge	to clear the bottom of an area of water by
Q.	scooping out mud, rocks and rubbish

### 3.1 Recording the Weather

- The UK sometimes experiences unusual or extreme weather events.
- Weather conditions can be recorded by measuring temperature, precipitation, wind direction, wind speed and cloud cover.
- many groups of The weather is important to people for

Element	Instrument
Temperature	Thermometer
Precipitation	Rain gauge
Wind	Wind vane
Wind speed	Anemometer
Cloud cover	Satellite

reasons, for

example

farmers,

different

to help forecast the likely weather shop and cafe owners or tourists.

sportspeople,

 Scientists use powerful computer models conditions in the next few days and

weeks.

## Year 7 Topic 2 Weather and Climate in the UK

### 3.2 Why is our weather so changeable?

- Weather in the UK is very changeable, due mainly causing severe disruption and many deaths. It swept across the UK and Europe from Siberia, In March 2018 a blast of bitterly cold weather became known as 'The Beast from the East'.
  - of several air to the effect masses that come from directions. different
    - Most of the time in the UK, a
    - prevailing
- transfers warm water across the Atlantic from the North Atlantic Drift is a warm ocean current that from the south-west across the Atlantic Ocean, bringing mild, cloudy and wet conditions. wind blows

Caribbean and brings warmer weather and rain to

the UK, especially the south-west coast.

Buckler's Mead Academy

- an important part cycle, transferring recycled between constantly being the land and the (precipitation) is the atmosphere, The water cycle describes how oceans. Rain of the water water is 3.3 Rain
- droplets become larger and heavier, they fall to the ground as vapour into water droplets (which turn into clouds). As these Rain is formed when air-cools and condenses, turning water water from the atmosphere to the ground.

The water cycle

Short periods of very heavy rainfall can sometimes cause widespread and devastating flooding in the UK.

### 3.4 Urban microclimates

- temperatures, and a higher chance of storms, fog and temperatures, windy conditions, higher night-time Urban microclimates are characterised by higher
- buildings, roads, vehicles and industry, and by higher temperatures, pollutants and a lack of vegetation. Urban microclimates are caused by the heat from
  - An urban heat island is a concentration of higher temperatures in a city.

### 3.5 Extreme weather in the UK

in the UK include the hot, dry summer of 2018 and the The village of Glenridding, in the Lake District, suffered Recent examples of extreme record-breaking weather heavy rainfall in December 2015. heavy rain caused the local damaging houses, shops, devastating floods when river to burst its banks, > >





### Geography

# HE ROMANS KNOWLEDGE ORGANISER



Important Places and Daily Life in the Roman Empire

The Colosseum was built between around 80

### Map of the Roman

Empire at its largest, during the rule of Trajan in 117AD. Much of what is now Europe and North size, the Romans' ability to run decreased, meaning that there particularly in the 3rd Century. However, with the increasing Africa was dominated by the empire, as was virtually all of was a gradual loss of territory the Mediterranean coastline. This map shows the Roman the empire effectively was from this point onwards, Empire (117AD)

	AD			NORTH PROPERTY S
Diagram – Map of the Roman Empire	The Roman Empire in 117 AD	Senatorial provinces impacts provinces impacts provinces impacts provinces impacts provinces impacts pages in the states	ESTATE SARBATA	OASTULIA PHATAMA
Diagr			Ŭ	

### The Colosseum Hadrian's Wall The Pantheon Diodetian's Palace

Key Fact: Lots of the wall still exists, and can be

Where?
73 miles along
northem

fortification designed to stop tribes in Scotland attacking England (part of the Roman Empire). It took over ten years to build. It was

Hadrian's Wall, begun in 122AD, was a

the most heavily fortified wall in the Empire.

Diocletian's Palace was built as a retirement

followed by path.

England

makes up about half of the old town of Split!

It is so huge that it

Where? Split, Croatia

residence for the Roman Emperor Diocletian around 305AD. He lived in the palace until his

death in 316AD. Although called a palace, it

was also space for a whole army garrison

Key Fact:

At its tallest, the aqueduct reaches a height of 28.5ml

Where? Segovia, Spain

Aqueduct in Spain, It is predicted to have been built around 112AD. It once transported water

Aqueduct of Segovia

The Aqueduct of Segovia is a well-maintained

Key Fact:

Roman Emperors could extend into

How?
Slaves and
servants were
counted as a part
of the 'familia.'

laws were written to protect the family structure. The family that you belonged to had

Family Life

Slaves and

Peasants

Family was an important part of Roman life -

from the Rio Frio river to Segoviα.

Key Fact: The Tamilia' of

translates as temple of all gods.<sup>2</sup>

Key Fact: Pantheon

Where? Rome, Italy

to the gods of Ancient Rome, however was rebuilt in its current form in 126AD. It is the best

preserved of the Roman buildings in Rome. Since it was built, it has always been used.

The Pantheon was originally built as a temple

animal hunts and sporting games.

189m long and

Where? Rome, Italy

AD by the Emperor Vesposian. It could seat about 50,000 spectators who came to watch events including gladiatorial combats, wild

Key Fact:

156m wide!

### Augustus is best known for being the first

Augustus (63BC-14AD)

Roman Leaders and Emperors

many years of civil war, he brought peace to the land, and began to rebuild the empire, including roads and buildings. He also expanded the empire around the Mediterranean, Augustus gained his title when he became the ruler. After Emperor of Rome and for establishing the Roman Empire. Formerly known as Octavian, and brought peace and prosperity to Rome. Marcus Aurelius (121AD-180AD)

and took control. As leader, he built many famous buildings and changed the calendar to the type we use today. He was

eventually murdered by members of the Senate.

**Nero** (37AD-68AD)

Nero has a reputation for being one of the worst

executed anyone who did not agree with him (including his own mother!) and that he played the fidalle whilst Rome burned in a great fire (this is debated). Despite starting out

Emperors of Rome. It is rumoured that he

gathered enormous support amongst Romans. In opposition

to the rules of the Senate, he marched his army to Rome

Julius Caesar was best known for the being the first

Julius Caesar (100BC-44BC)

dictator of Rome – putting to an end the Roman Republic. A powerful army general, Caesar



Life in the City

Key Fact: ----e was the

The Romans used city grids to plan their new cities

people could be entertained, and important

decisions took place.

was the place where goods could be traded,

How?

biggest, there were many important cities across the Empire

Key Fact: The city of Rome had

How?
Crops were grown in
the country to be
shipped to ches like
Rome

hard, with most people working from dawn Roman children started school at the age of

A MI

Life in the Country

right up until dusk,

countryside - many were farmers. Life was Most of the Roman population lived in the

to import 6 million sacks of grain a year

Mony girls were not allowed to

Children leamt reading, writing

seven. Wealthy children could be taught by a tutor, whilst others went to public school. Poor

School

school.

and moths.

Key Fact:

The poor largely ote a porridge called 'puls.'

How? Foods were imported all around the

depending upon a person's wealth and where they lived. The Romans ate 3 meals a day, with

A wide variety of foods were available,

children could not go to school.

Key Fact:

themselves into slavery to pay debts?

Most slaves worked in building or on forms

construction in the Roman Empire. Most slaves were people captured in times of war, but In Ancient Rome, the city was the hub of life. It

some children were born as slaves.

Slaves performed much of the hard work and

a lot to do with your place in Roman society.

Key Fact:

How?

the Roman Empire through wars on several fronts, whilst also the word 'Aurelius' itself means golden. He skillfully guided him. Aurelius made sure that his son (Commodus) succeeded him after his death - a bad choice as Commodus proved to receiving loyalty from those in positions of power around Rome's 'Five Good Emperors.' He was well-liked Marcus Aurelius was considered the last of be self-centred and inexperienced.

with good intentions, Nero became a tyrant, killing people in horrible ways, often with little proof of their guilt. In 68AD,

fearing that he would be executed, Nero committed suicide.

Claudius (10BC-54AD)





marked the northern limit of Roman territory in Britain. He considered the third of the Five Good Emperors.'
Throughout his reign, he travelled to almost every province. also built the Pantheon in Rome, amongst many other famous buildings. Hadrian was a kind Emperor who was best-known for building Hadrian's Wall, which Hadrian was the Roman Emperor who is now Hadrian (76AD-138AD)

the last remaining male in the family, aged 38. Claudius, however, proved himself to be a good leader, expanding the

Empire and doing a great deal for the public. Unfortunately his adopted son, Nero, later undid much of his good work.

Claudius was the fourth Roman Emperor. He had waliking, which meant he was kept from power until he was

some kind of disability, in both speech and

**5**00

Clothes Roman Timeline

begins, with Augustus as the 27 BC - The Roman Empire first Roman emperor. first dictator of Rome, signaling the 45 BC- Julius Caesar becomes the

end of the Roman republic.

gladiator leads the slaves 73 BC - Spartacus the in an uprising.

509 BC – Rome becomes a republic. Rome is run by

753 BC - The city of Rome is founded.

elected senators.

Colosseum is

80 AD - The 121 AD - Hadrian's 306 AD - Constantine Wall is built.

naking Rome a Christian converts to Christianity,

overthrown and the Roman 476 AD - Romulus is Empire is no more.

The rich could afford linen and silk dothes.

Most dothes were made from wool.

However the women's tunic was normally slightly longer. Women wore white until they were married. Most Romans wore sandals

(made of leather) on their feet,

Most men and women wore tunics, with a belt

the largest meal eaten in the afternoon.

Key Fact:

### History

### Mathematics - Year 7



In Maths you will receive a separate knowledge organiser.

Your knowledge organiser will help you to:

Know which MET\* skills you should be learning

Frack 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

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:

	Probability	& Statistics
	веотетту в	Measure
	Algebra &	Graphs
•	Number &	Ratio

You can see the full MET in the Maths Corridor!

# Maths Equipment you must have every lesson:

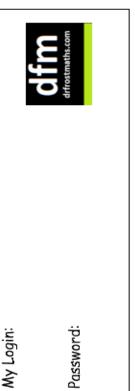
Pen, pencil, rubber, ruler, prortactor,

compasses, scientific calculator

July	tseT & tinU
ame	Probability
Te	tseT & TinU
Term 5	Presenting and Interpreting Data
April	fad of Year Test (2)
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April	tseT & finU
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### USEFUL WEBSITES:

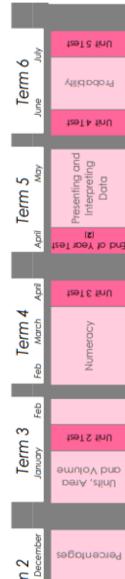




www.khanacademy.org

www.bbc.co.uk/bitesize

https://corbettmaths.com



### **Maths**

### About me

Bonjour!	Hello!
Salut!	Hi! Bye!
Au revoir!	Goodbye!
Comment t'appelles-tu?	What's your name?
Je m'appelle	I'm called
Où habites-tu?	Where do you live?
J'habite en/au	I live in
l'Allemagne	Germany
l'Angleterre	England
la Belgique	Belgium
l'Écosse	Scotland
l'Espagne	Spain
la France	France
l'Italie	Italy
l'Irlande	Ireland
le pays de Galles	Wales
le Portugal	Portugal
la Suisse	Switzerland
Quelle langue parles-tu?	What language do you speak?
je parle	l speak
on parle	we/they speak
Anglais/allemand/français/ gallois	English/German/French/ Welsh
Je suis	I am
Allemand(e)/anglais(e)/ Écossais(e)/espagnol(e)/ Français(e)/gallois(e)/ irlandais(e)/belge	German/English/Scottish/ Spanish/French/Welsh Irish/Belgian
D'origine (tunisienne/	of (Tunisian/Senegalese)
Sénégalaise).	origin

### Dates and birthdays

janvier	January	juillet	July
février	February	août	August
mars	March	septembre	September
avril	April	octobre	October
mai	May	novembre	November
juin	June	décembre	December

### 1-31

un	1	deux	2
trois	3	quatre	4
cinq	5	six	6
sept	7	huit	8
neuf	9	dix	10
onze	11	douze	12
treize	13	quatorze	14
quinze	15	seize	16
dix-sept	17	dix-huit	18

dix-neuf	19	vingt	20
vingt et un	21	vingt-deux	22
vingt-trois	23	vingt-quatre	24
vingt-cinq	25	vingt-six	26
vingt-sept	27	vingt-huit	28
vingt-neuf	29	trente	30
trente et un	31		
C'est quel jo	our aujourd'hui	i? What is the da	ite today?
Quelle est la	a date de ton	What is the da	ate of your
anniversair	e?	birthday?	
C'est le prer	nier/deux.	It's the first/se	cond of
janvier.		January.	
Quel âge as	-tu?	How old are y	ou?
J'ai (onze) a	ins.	I am (11) year	s old.

### PHONICS

Ça (s)
français
tu/vous (u/oo)
Suis/huit (we)
j'ai/ez/er/ais (ay)
trois/soir (wah)
neuf (eu)
deux/neuf (uh)
cinq (a)
Sept (set)

Silent letters end of words- s/x

Masculine, feminine and plural

### GRAMMAR

Le/la/l'/les- definite articles
Un/une/des- indefinite articles
Masculine, feminine and plural
Different ways of saying you
Imperative- (commands)
Cognate- (words that look and mean the same as English)

### **MFL** - French

Von 1 bis 31	From one to 31	
eins	one	der Monat
zwei	two	- Januar
drei	three	Februar
vier	four	März
fünf	five	April
sechs	six	Mai
sieben	seven	Juni
acht	eight	Juli
neun	nine	August
zehn	ten	September
elf	eleven	Oktober
zwölf	twelve	November
dreizehn	thirteen	Dezember
vierzehn	fourteen	
fünfzehn	fifteen	Wie geht's?
sechzehn	sixteen	Mir geht's gut.
siebzehn	seventeen	fantastisch
achtzehn	eighteen	sehr gut
neunzehn	nineteen	nicht gut
zwanzig	twenty	- schlecht
einundzwanzig	twenty-one	Schlecht
zweiundzwanzig	twenty-two	
dreiundzwanzig	twenty-three	- Hallo
vierundzwanzig	twenty-four	Guten Tag
fünfundzwanzig	twenty-five	Guten Morgen
sechsundzwanzig	twenty-six	Guten Abend
siebenundzwanzig	twenty-seven	Auf Wiedersehen
achtundzwanzig	twenty-eight	Tschüs
neunundzwanzig	twenty-nine	-
dreißig	thirty	Wie heißt du?
einunddreißig	thirty-one	lch heiße
Wie alt bist du?	How old are you?	Wie schreibt man das?
Ich bin Jahre alt.	l am years old.	Das schreibt man
Ich habe am	My birthday is on the	-
Geburtstag.	wy bittiday is on the	Länder
Ich habe im	My birthday is in	lch komme aus
Geburtstag.	my bilanday is in	Ich wohne in
Wann hast du	When is your birthday?	Deutschland
Geburtstag?		die Schweiz
am ersten/zweiten/dritten/	on the first/second/thirdl	die Türkei
vierten	fourth	Frankreich
am zwanzigsten	on the twentieth	. Italien
	are memori	- Italieli

month
January
February
March
April
May
June
July
August
September
October
November
December

How are you? I feel good, I'm well.

fantastic very good not good bad

Hello

### MFL—German

PHONICS

GRAMMAR

Genders- der, die, das (definite article)

Different words for you (du/ihr/Sie) Imperative (command) words

Recognise imperative commands/pronouns

Ein/eine/ein (indefinite article)

Jahre- y

ei-i ie-e

ß- ss

Wann/zwanzig-v

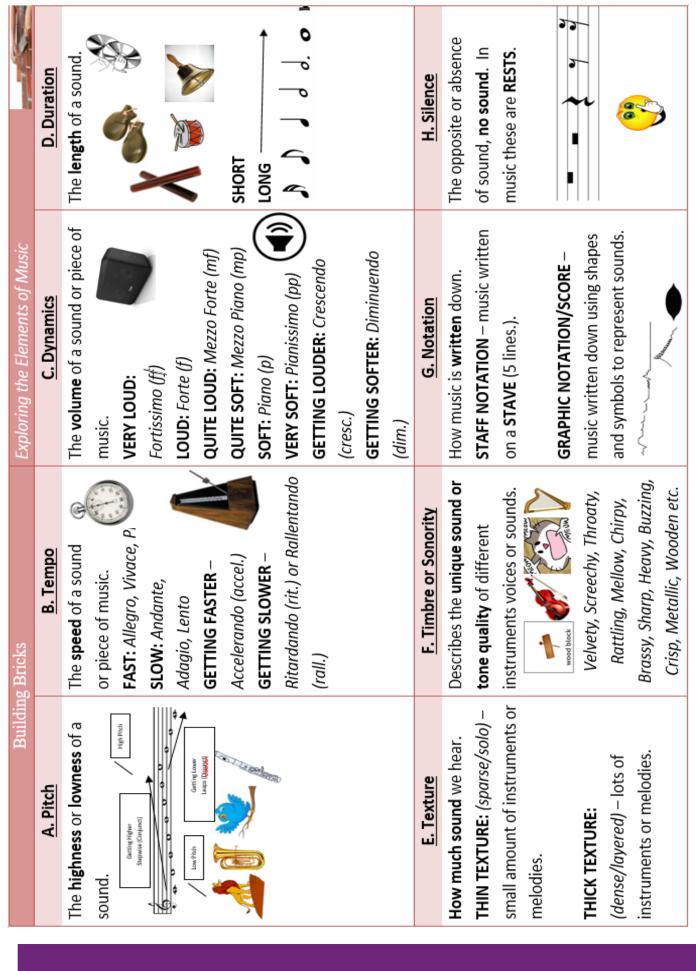
ten/sten for dates

v-f

z-ts

umlauts on vowels

au-ow



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  ASION GAMES: Rugby, Hockey,  GYMNASTICS: Trampolining	Spotters: 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.	'등   일   12 To	Twists: Swivel hips, Back ½ twist to feet, ½ twist into back  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, \(\frac{2}{3}\) front to back landing, Front somersault, Back somersault
KS3 PHYSICAL EDUCATION  AUTUMI  All students will participate in at least  They are Rugby, Hockey, Baske  INVASION GAMES: Rugby, Hockey,	<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.	<u>Defending strategies:</u> defending a space or area to stop your opponents from scoring. Defending the goal or try line. <u>Attacking strategies:</u> 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.

### Year 7 Cells

Bacterial Cell	cell membrane circular DNA cell wall flagellum	
Plant Cell	chloroplast  nucleus  cell membrane  mitochondria  cytoplasm  permanent vacinole	
Animal Cell		

### Building an Organism

Cell - smallest unit of a living organism

**Tissue** - group of the same cells working together

Organ - group of different tissues working together for a particular job

Organ system - different organs working together for a particular function

### Parts of the Blood

**Plasma** – straw coloured liquid carrying proteins,  $CO_2$  and glucose

Red blood cell + white blood cells

Platelets - clot together to form scabs to stop microbes entering the body

+‡+		
	Nucleus	Controls cells activities, contains DNA
	Plasmids	Rings of DNA found in bacterial cells
	Mitochondria	Place of cell respiration
	Chloroplasts	Contains chlorophyll – place of photosynthesis
	Cell Wall	Helps strengthen the cell in plants
	Cell Membrane	Controls movement of substances in and out of the cell
	Cytoplasm	Jelly like substance where chemical reactions occur
	Flagellum	A tail like structure to allow the cell to swim
	Permanent vacuole	Filled with cell sap to keep the cell rigid

### Specialised Cells

Name	Function	Adaptation
Root hair cell	Absorbs water from the soil	Large surface area
Palisade cell	Place of photosynthesis	Packed full of chloroplasts
Sperm cell	Swim and fertilise the	Tail & full of mitochondria
	669	
Egg cell	Fertilised by sperm	Full of nutrients for the developing
		embryo
Red blood	Carries oxygen (O2)	Biconcave, no nucleus to carry more O <sub>2</sub>
cell	around the body	in the haemoglobin.
White blood	To fight infection	Can change shape to engulf pathogens,
llao		produce antibodies
Nerve cell	Carries nerve impulses	Long and thin connecting to other
	around the body	nerves and muscles
Muscle cell	Allows the body to move	Contains proteins that can contract &
		relax. Packed full of mitochondria.

### Science

# Working in the Lab Knowledge Organiser

**Key Equipment** 

Role	Worn to protect the eyes	Measures temperature	Holds larger volumes of liquids	Holds glassware on the tripod	Accurately allows us to measure volume of liquids	Holds liquid substances	Used with the bunsen when heating	Allows liquids to be stirred or swirlled safely	Used to heat substances	Measures mass	Used to evaporate liquids from dissolved solids	Used to separate solids from liquids	Used to hold equipment in place
Equipment	Safety Glasses	Thermometer	Beaker	Gauze	Measuring Cylinder	Test Tube	Tripod	Conical Flask	Bunsen burner	Balance	Evaporating Basin	Filter paper and funnel	Clamp Stand

### Using a Microscope

arm

				)	)
<ul> <li>stage clips</li> </ul>	coarse	adjustment knob		fine	adjustment knob
			y		
stage-		light,	source	pase	

### Using a Light Microscope

- Plug in the microscope and turn on the light.
- Place the slide on the stage and hold it in place with the stage clips.
- Turn to the objective lens with the lowest magnification.
- Look down the eyepiece lens and use the adjustment knobs to focus the specimen.
  Increase the magnification by turning to a higher power objective lens, then use the fine adjustment knob to bring the cells back into focus.

### Used to focus on the lowest magnification so you can find the specimen For the higher magnification so you can see the image more clearly This changes as you increase the magnificaiton This allows you to clearly see the specimen You look down this to see the specimen The object you are looking at How much detail you can see How zoomed in the image is Where the slide is placed Fine adjustment knob Coarse adjustment Objective lens Eyepiece lens Magnification Light source Resolution Specimen Stage Parts knob

### Science

objective lens\_

eyepiece \_\_