



Knowledge organiser for PE



Year 3 Outdoor Adventurous Activities (OAA)

Motor competence - a

person's ability to make a range of physical actions including coordinating fine and gross motor skills.

Key skills: physical

- Balance
- Coordination
- Run at speed
- Run over distance

Healthy participation

- Burns calories
- Builds muscular endurance
- Tones muscles and builds strength
- Improves flexibility
- Improves coordination

Rules

- Keep safe at all times.
- Keep others around you safe.
- Listen to instructions carefully.
- Make sure there is adult supervision.



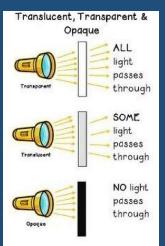
Key vocabulary

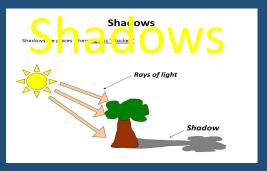
- Backstroke: a style of swimming on the back
- Breastroke: a style of swimming on the front
- Front crawl: a type of stroke
- Glide: moving in the water smoothly
- Stroke: styles of swimming including backstroke, breaststroke, freestyle and butterfly.
- Treading water: a technique keeping the head above water
- Submerge: when you are under water
- Sculling: moving the hands to keep the head above water



Science – Light and







Shadows are formed when a light source is blocked.

Vocabulary

Light source An object that produces it's own light.

Shadow A dark area or shape caused when light has been blocked.

Opaque An object that does not allow light to pass through it e.g. wood.

Reflection When a light hits a surface and bounces off.

LARGE SHADOW

when the tov is

close to the light





SMALLER SHADOW when the tov is further from the light





Warning! Taking care in the sun!













careinthesun.org



Reflection

When a beam of light is reflected from a surface, it changes direction. Smooth, shiny surfaces such as polished metals reflect light well. Rough and dark surfaces do not reflect light well.



Geography: Derbyshire – a neighbouring county

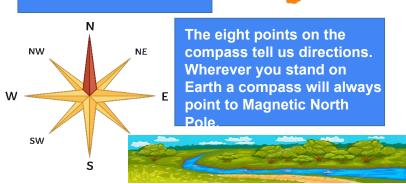
Inspiring confidence, compassion, character and fun!

Each region is split into counties. Leicestershire and Derbyshire are counties in in the East Midlands.



NOTTINGHAMSHIRE Chesterfield o Lincoln o Mansfield LINCOLNSHIRE DERBYSHIRE Nottingham Derby o Loughborough RUTLAND LEICESTERSHIRE · Corby NORTHAMPTONSHIRE orthampto

England is split into 9 regions. We live in the East Midlands.



Key Features of a rivers and Mountains

A river is a moving body of water. It flows from its source on high ground, across land, and into another body of water e.g. a lake, the sea. an ocean or even another river.

To be called a mountain, the land feature must be over 600 metres tall. Anything smaller than that is called a hill. The land between hills or mountains is called a vallev.

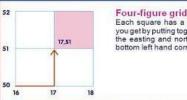


County Contour line compass point grid reference symbol

Maps use **contour lines** to show hills, slopes and mountains. The steeper the slope the closer together the lines will be.



Grid references help you to find a place on a map.



Four-figure grid references Each square has a grid reference which you get by putting together the numbers of he easting and northing that cross in its

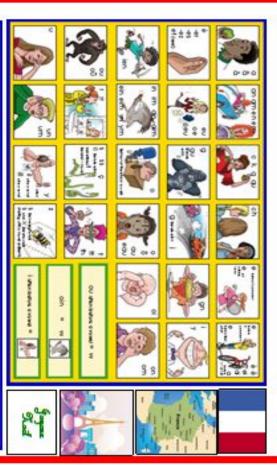
Vocabulary

United Kingdom

river bank

river source river mouth





merci (thank you) au nevoir (goodbye) (hello/hi)

ABOUT

appelles (what your

j'habite à où habites-tu? (where do you live?) je m'appelle (I live in (my name is

quel âge as -tu? (how old are you?)

Jai sept/huit ans (I am seven/eight years old)

	Here are a dog and a cat.	Voici un chien et un chat,	Here is a hen.	Voici une poule,		ゆるともろう	une poule — a hen	une parthère — a parther	une girafe — a giraffe	Feminine	un lapin — a rabbit	un chien — a dog	un chat — a cat	Masculine	Nouns
Cast de quelle codemo	marron	Drun		violet	rose	noir	blane	orange	gris	Ver			rouge	bleu	Colours
		12	11	10	9	œ	7	0	CT	4	ω	12	-	0	-
		douze	onze	dix	neuf	huit	sept	six	cinq	quatre	trois	deux	S	zéro	Numbers



Knowledge organiser for Music: arinas 1



Key Knowledge









В



Key concepts covered:





Top Tips:

- Don't blow hard or it will make a squeaky noise.
- Say doo gently into the mouthpiece for a nice sound.

Key vocabulary

- Wind instrument an instrument that is made by blowing into the mouth piece.
- Stave A collection of lines onto which the notes are placed.
- Crochet note

 A note that is played for 1 beat.
- **Semibreve note** A note that is played for 4 beats.
- Time signature tells you how many beats in a bar.

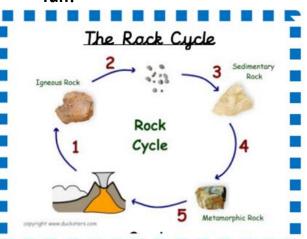




Igneous

Inspiring confidence, compassion, character and fun!

ROCKS AND FOSSILS KNOWLEDGE ORGANISER

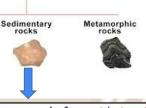


Did you know?

- Rocks can look different
- Rocks can be sorted into different groups
- Rocks are used by humans for different purposes.







A fossil is the remains or the impression left by a prehistoric plant or animal embedded in rock.



Vocabulary:

Sedimentary - rock formed from layers

of sand, stones or mud.

Metamorphic - rock that has changed by heat or pressure.

Igneous - rocks formed by the actions of a volcano.

Permeable - allowing liquids or gases to pass through.

Minerals – a naturally occurring solid, inorganic substance.

Sand - tiny grains of rock, often yellow or brown.

Gravel - small stones mixed with coarse sand.

Clay – a sticky kind of earth that can be made into pottery or bricks

Fossil - the remains or traces of plants and animals that lived long

Erosion – the gradual wearing away of rock.



Knowledge organiser for Histo

Key Knowledge

I understand that the past can be divided into different periods of time.

I understand that timelines can be divided into BC and AD.

Key concepts covered:

Early Stone Age - Humans hunted and gathered their food, before learning how to grow crops and harvest food. This was when farming began. Now we get our food from a shop.

Bronze and Iron Ages - This is when metal was first used. This made life a lot easier as metal could be used to make stronger tools and weapons for farming and hunting. Farming continued through the Iron Age period and we still use some of the same tools and harvest the same crops now.

BCE = Before Common Era CE = Common Era

The Stone Age, Bronze Age and Iron Age were all named after the material used for weapons and tools at that time. Humans needed basic shelter, food and water to survive in these ages.

Key Vocabulary

Archaeologist – person who learns about the past by digging up artefacts and studying them.

Artefact – an object made by a human being.

Settlement – A place where people choose to live together.

Flint - A type of stone that can be shaped into blades, knives and spears for hunting.

Paleolithic era – The old stone age

Mesolithic era – The middle stone age

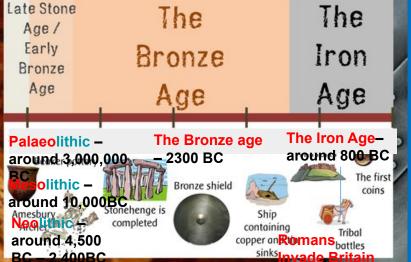
Neolithic era – The new stone age

Bronze– A material made from copper and tin.

Iron – A strong hard metal.

Tribes - A group of people that live together for protection.

Hill fort – a settlement surrounded by a





Key concepts covered:

Understand and use lever and linkage mechanisms to make a moving animal.

- Distinguish between fixed and loose pivots.
- Know and use technical vocabulary relevant to the project.

Lever and linkage mechanisms usually produce oscillating or reciprocating movement:



Linear – in a straight line



Reciprocating – backwards and forwards in a straight line e.g. a slider



Rotary – round and round e.g. a wheel, cam, pulley, gear wheel



Oscillating – backwards and forwards in an arc e.g. a lever

Knowledge organiser for Design and Technology

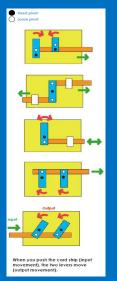
Stafford Leys Primary School

Key knowledge:

To design, make and evaluate a moving animal using levers and linkages. The design will also include a fixed or moving pivot.







Key Vocabula	ary
Mechanism	A device used to make movement in a product.
Lever	A rigid bar which moves around a pivot. Levers are used in many everyday products. In this project children will use card strips for levers and paper fasteners for pivots.
Linkage	The card strips joining one or more levers to produce the type of movement required. The term 'linkage' is also used to describe the lever and linkage mechanism as a whole.
Slot	The hole through which a lever is placed to enable part of a picture to move.
Guide or bridge	A short card strip used to keep lever and linkage mechanisms in place and control movement.
Loose pivot	A paper fastener that joins card strips together.
Fixed pivot	a paper fastener that joins card strips to the backing card.
System	A set of related parts or components used to create an outcome. Systems have an input, process and an output. In a lever and linkage mechanism, the 'input movement' is where the user pushes or pulls a card

strip.



History: What is the Roman Empire and how did it affect



Key Knowledge

England was ruled by tribes called the Celts.

in?

The Romans were building an empire across Europe.

The Roman army was strong organised and powerful.

The Romans wanted Britain's precious metals gold, tin and iron.

In 45 AD the Romans invaded and began their rule in Britain.

The Romans built new cities, roads and buildings.

In 410 Ab the Romans left Britain



Testudo formation



Long, straight roads were built across the empire. They helped move armies quickly and let trade travel across long distances.



Key Vocabulary

Empire – A group of countries controlled by one ruler.

Emperor – The ruler of an empire.

<u>Invasion</u> – An army enters and tries to take control of a country or region.

3 III

VI

VII

Conquer – To defeat an enemy and take control.

Legion – A group of 400-6000 Roman soldiers.

Key concepts covered

Romans brought many inventions to Britain like sewers, heating, roads and numbers.

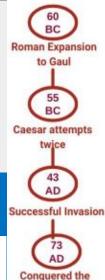
Hadrian's wall was built, 122AD, as the northern border of the empire. It was 120 km coast to coast and kept Scotland (Caledonia) out.



Not everyone
wanted the
Romans in
Britain



Boudicca, an Iceni leader who led a Celt rebellion against the Roman invaders.





South





Year 3 - Volcanoes and Earthquakes



Key Knowledge

There are 4 parts to the earth: the crust, mantle, outer core and inner core

The crust is made up of plates.

Most of the world volcanoes are located on plate boundaries.

When a volcanoes erupts magma rises to the surface.

Volcanoes can be active. extinct or dormant.

Volcanoes and earthquakes affect peoples lives.

A earthquake happens when two plates rub together.



Key Vocabulary

magma - molten, or hot liquefied, rock located deep below the Earth's surface

lava - lava is hot, liquefied rock that flows from a volcano

crater - a bowl-shaped ditch in the ground

crust - the outermost layer of our planet

eruption - when a volcano explodes, and flames and rocks come out of it

active - a volcano that is likely to erupt again

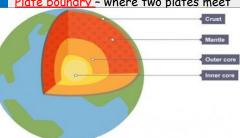
extinct - a volcano which has not erupted in the past 10,000 years

dormant - a volcano that is quiet, but might possibly erupt again

tectonic plates - earth's outer layer is made up of large, moving pieces called tectonic plates.

vibration - rapid back-and-forth motion

<u>Plate boundry</u> - where two plates meet





Key concepts covered:

How are Volcanoes Formed?

- Magma rises through cracks or weaknesses in the Earth's crust.
- When plates move magma can explode to the surface causing a volcanic eruption.
- The lava from the eruption cools to form new crust.
- Over time, after several eruptions, the rock builds up and a volcano forms.

What causes Earthquakes?

- · An earthquake is the shaking and vibration of the Earth's crust.
- This happens when two plates move. Earthquakes happen along a plate boundary.
- Plates do not always move smoothly alongside each other and sometimes get stuck.
- The vibrations can be felt from far

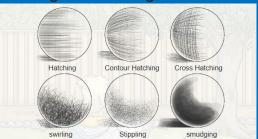


Knowledge organiser for Art



Key Knowledge

Drawing texture using line and tone



Drawing skills using different materials.







The Romans built lots of different building throughout their Empire. They are often considered to be very artistic but also groundbreaking in how they worked.









Key vocabulary

- Texture- the appearance of a surface or substance
- Line- a long narrow mark
- Tone- the lightness or darkness of colours used
- Materials- artists use to recreate art in any combination.
- Contour hatchingtechnique used to create tonal or shading effects by drawing closely spaced parallel lines.
- Stippling- a technique using areas of light and shadow are created using nothing but dots.

3







































SHI)

Quelle est la date de ton anniversaire? (When is your birthday?)

préféré? (What is your favourite day?)

Quelle est ton jour

Quelle est ta couleur préférée? (What is you favourite colour?)

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Les Jours	de la Semaine	lundi

Les Mois de l'Année	janvier février	Mars
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septembre



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novembre octobre

somme s-nous? Nous sommes décembre

31 trente-et



Knowledge organiser for Year 3 Spring L

Key Knowledge

Achilles the warrior





Key concepts covered:

Word endings in Latin are important!

Noun = subject

Verb = Object

The two sentence have different meanings.

When the noun is doing the loving, the word ends in a.

When the noun is being loved, it

ends in am.

The woman loves the cow femina vaccam amat

The cow loves the woman feminam vacca amat







Key vocabulary

Greek influences

Micro - small Tri – three Mega – big Tele – far away





Latin words around us

Finis – finish

Villa – house

Schola – school

Bestia - beast









Knowledge organiser for Music: Ocarinas 2



Key concepts covered:

Key Knowledge





















Crotchet note

Play for 1 beat.





Top Tips:

Don't blow hard or it will make a squeaky noise

В

G

Say doo gently into the mouthpiece for a nice sound.





- Stave A collection of lines onto which the notes are placed.
- Time signature tells you how many beats in a bar.
- Semibreve note A note that is played for 4 beats.
- Compose To create
- **Composition** A piece of music you have created.
- **Appraise** To evaluate how good something is.



Science: Animals including humans



Key Knowledge...

Key concepts covered: Biology: Animals, including humans

- Humans and animals need nutrients for their bodies to survive and grow.
- Nutrients are found in food.
- Humans and animals get the nutrients they need from the food they eat.

We need to eat from the 5 food groups to get a balanced diet.



Carbohydrates for energy

Fruit and vegetables contain vitamins to keep us healthy.

Dairy for healthy teeth and strong bones.

Protein to help muscles to grow and repair.

Fats keep our organs safe. TOO MUCH FAT IS BAD!

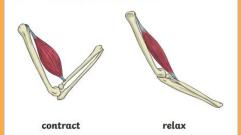
Skeletons and muscles

Humans and animals have skeletons to...

- Support their bodies
- Protect their organs
- Help them move



Skeletal muscles work in pairs to move the bones they are attached to by taking turns to contract (get shorter) and relax (get longer).



Vertebrate animals with a backbone.

Invertebrate animals without a backbone.

Joint places where 2 or more bones meet



muscle soft tissues in the body that cause movement.

Tendon - cord that joins muscles to bone

nutrition using the nutrients in food for living and growing

nutrients - something in food that helps animals live and grow

diet - the food and drink usually eaten and drunk by a person or animal.



Knowledge organiser for Art



Key Knowledge **Amrita Sher-Gill is** a Sikh painter.

Born: 1913 in Hungary **Died:** 1941 aged 28

Her father was Indian

Amrita Sher - Gil challenged stereotypes of the day that said women couldn't paint for a living and that art from India could not be classed as "fine art".



This painting is called a 'A Village Scene'

Amrita Sher – Gil liked to paint ordinary people and everyday scenes.

She used acrylic paint.

She likes to use reds, yellow, and browns.

Flat brush

- Used to fill in colour.

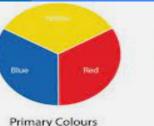
Liner Brush

- Used for thin lines.



Acyrylic paint - A type of paint used by artists on canvas.

Cross Hatch - A method for adding colour **Draw brush - Dragging the** brush across the page to create a lighter shade.





Secondary Colours



Knowledge organiser for Sikhi

Key Knowledge

The religion Sikhism originated in India.

Guru Nanak was the first Sikh Guru.

Sikhs wear **five** symbols called the **five Ks** to show their devotion to Sikhism

Guru means 'Teacher'.

Sikhism is still based on his teachings and those of the nine Sikh Gurus who followed Guru Nanak.

Sikhs feel able to pray to God as a person and a friend who cares for them.

Sikhs regard prayer as a way of spending time in company with God

Key concepts covered:



Vaisakhi festival is the harvest and new year festival. The day is celebrated with bright new clothes, singing and dancing and going to Vaisakhi fairs. This year it falls on Friday 14th April.



Gurdwara can be found around the World. They are where Sikhs go to meet and worship.

Guru Granth Sahib

This is the Sikh holy book.





Key vocabulary

Vaisakhi – sikh festival
Guru – a teacher
Punjabi – language of Punjab
Punjab – a place in northern
India

Gurdwara – a Sikh temple Amritsar – a city in Punjab with the famous Golden Temple Sewa – the act of giving

Kes (ब्रेम) । Untrimmed Hair (ब्रेथा) Wooden Comb

Kirpan (विलग्फ) Sword

Kara (ब्रज्ज) य Iron Wristlet

Kachehra (ब्रह्मिंग) Baggy Shorts



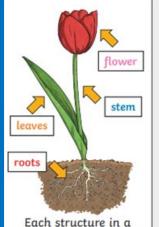
Knowledge Organiser for Science: Plane

(S)

Key Knowledge



Different plants vary in how much of these things they need. For example, cacti can survive in areas with little water, whereas water lilies need to live in water.



flowering plant has a job to do (a function).

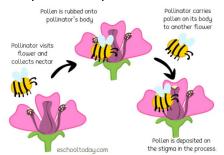
Roots – Keeps the plant in the ground and absorbs water and nutrients from the soil.

Stem – Holds the plant up straight and transports water and minerals round the plant.

Leaves – Absorbs the sunlight.

Flowers – Are colourful and scented to attract insects.

The pollination process...



- Plants begin life as seeds or bulbs.
- Seeds can travel by the wind, by water or by an animal.
- Weeds are plants that grow in unwanted places.

All plants are different
Some need lots of water, some
need very little, some even
grow in wa

Key vocabulary

Germination – the sprouting of a seed.

Transport – to move something from one place to another.

Absorb – to take in or soak up

Pollen - A fine powdery substance used to make new seeds.

Nectar - A sugary liquid inside the flower used by bees and other insects.

Pollination – transporting policin from one part of a plant to another.

Seed dispersal – transporting seeds from the plant to another location.



Knowledge organiser for Europe - Poland

Key Knowledge

- -Name and locate the UK on a map -Europe is a continent
- -The 7 continents of the world
- The difference between physical and human features
- Countries that border Poland

Key Concepts Covered

Fact File

Poland –Located in central Europe

Capital city: Warsaw

Population size: 38 million

Official language: Polish

Climate: relatively cold winters and warm summers

Did you **Know?**

There are 46 countries in Europe, although most of Russia and Turkey are in Asia.







Hemisphere Key Vocabulary

Europe – is a continent located entirely in the Northern hemisphere

Continent – a large area of land which contains several countries

Capital city – major city for where the government is based

European – someone from Europe

 half of the globe lying north of the equator

Southern Hemisphere

– the other half of the globe lying south of the equator



Knowledge organiser for Computing Creating Media Animations

Key Knowledge

We can make a picture move using animation.

An animation is a sequence of drawings or photographs.

Frame is a selection.

Stop motion animation is where you capture one frame at a time.





Key concepts covered:

- Relate animated movement with a sequence of images.
- Predict what an animation will look like.
- Explain why little changes are needed for each frame.
- Create an effective stop-frame animation.
- Plan an animation.
- Break down a story into settings, characters and events.
- Describe an animation that is achievable on screen.
- Create a storyboard.

Key vocabulary

Animation is a moving picture.

iMotion is an app







Storvboard -

A storyboard is a series of illustrations that map out the key events in a story.



a surface on which electronically created images or text are

Onion skinning – several frar







Knowledge organiser for Design & Technology

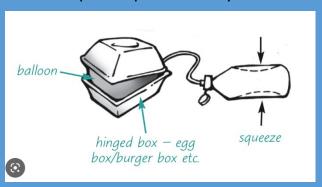
Moving Dragons

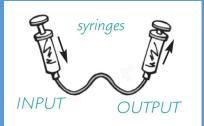


Key Knowledge

- Mechanisms are the parts that make something work.
- Pneumatic mechanisms air to make something move.
- They form a pneumatic systems which have an input, process and an output.

Examples of pneumatic systems...





In this example the **input** is when one syringe is pushed in. They are connected by a tube which the air travels through. The **output** is the other syringe being moved out.

Key vocabulary

pneumatic = operated by air

input = what is put in

output = what happens as a result

compressed = something that is squashed e.g. air in a tube.

inflate = fill with air.

deflate = let air out.



mechanism = a device us create movement.



hinge = a join that allows something to open or close.



Knowledge organiser for Science – Forces and Magnets



Key Facts

Magnets

Magnet are objects or materials that produce a magnetic field and attract or repel magnetic objects

Magnets have 2 poles, a north pole and a south pole.

1 north pole and 1 south pole will attract.

2 south poles or 2 north poles will repel.

Forces

Forces make things change shape, change speed or change direction.

It is easier to pull or push things along a smooth surface than a rough one.

Forces act in opposite directions to each other.

Key concepts covered:

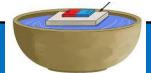
How do different surfaces affect the way an object moves?

Do all forces need contact between 2 objects?

Can I move an object with a magnet?

Do magnets only attract other magnets?





Forces - Pushes and Pulls





Key Vocabulary

Forces – pushes or pulls.

Friction – A force that acts between 2 surfaces or objects that are moving, or trying to move, across each other.

Surface – the top layer of something

Magnet – an object which produces a magnetic force that pulls certain objects to it.

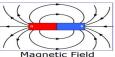
Magnetic – Objects which are attracted to a magnet are magnetic. Objects containing some metals are magnetic.

Poles – North and south poles are found at different ends of a magnet.

Repel – Repulsion is a force that pushes objects away e.g. the two poles repel (push away from each other).

Attract – Attraction is a force that pulls objects

together e.g. the two poles together).



Friction is a force what holds back the motion



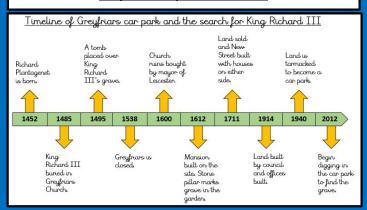
Knowledge organiser for Richard III



Key Facts

- · Richard III was an English king
- He reigned from 1483 to 1485
- Richard was part of the House of York during the War of the Roses
- Henry Tudor from the House of Lancaster believed he should be king
- The War of the Roses was fought to decide who should be King
- The Battle of Bosworth was the last battle in the War of the Roses
- Richard was killed and his body was brought back to Leicester
- He was buried quickly in a church in Leicester
- His body was rediscovered in 2012 in a car park in Leicester
- The people of Leicester campaigned for his body to be reburied in Leicester Cathedral instead of in

Key concepts covered:







Key Vocabulary

War of the Roses – a war for the English throne between 1455 and 1487.

Battle of Bosworth – the last battle between the House of York and House of Lancaster.

Leicester Cathedral – a large Christian church in Leicester.

Reburial – to bury someone or something again.

Archaeologists — scientists who study the history of humans by looking at what man-made objects were left behind.

Heir – a person who will inherit the throne when the current king or queen dies.

Monarch – a person who rules over a place, usually a king or queen.

Reign – to rule over a country as a monarch.

Throne – the position of a king or queen.

Pre		Saxons	<u>Vikings</u>	Normans	<u>Tudors</u>	Stuart	Georgian	<u>Victorians</u>	<u>Today</u>
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