



At South Hill, we have created 'Knowledge Organisers' to help pupils and parents to know what the children will be learning in each of our Foundation subjects. These contain essential vocabulary and facts for each topic.

Please see 'Knowledge Organisers' attached for Year 5 for the autumn term, which will also be in pupil's books and on working walls in school.



YEAR 5 SCIENCE - PROPERTIES AND CHANGES OF MATERIALS KNOWLEDGE ORGANISER

Dissolving

solution

state.

Heating

Mixing

Kev Vocabularv

sugar with water, the sugar

transparent solution. Salt is

dissolves to make a

soluble in water too.



What have we learnt in this topic before, what we will learn this year and what will we learn next?

In Year 1, we learnt in our topic

Everyday Materials (Objects and materials)

- To distinguish between an object and the material from which it is made
- To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials
- compare and group together a variety of everyday materials on the basis of their simple physical properties
- Our Focus Scientist was Charles Macintosh -Waterproof fabrics

In Year 2, we learnt in our topic Uses of everyday materials (Materials for different uses)

- To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
- Our Focus Scientist was John McAdam-building roads

in Year 5, we will develop this further and learn about

- To compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- To know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- To use knowledge of solids, liquids and agrees to decide how mixtures might be separated, including through filtering, sleving and evaporating
- To give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- To demonstrate that dissolving, mixing and changes of state are reversible changes
- explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of
- Our Focus Scientist is Ruth Benerito wash and wear

CLASSIFYING MATERIALS

Different materials are used for particular jobs based on the properties they have.

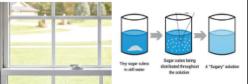
Conductor - A conductor is a material that allows heat or electricity to easily pass through it. Most metals are thermal conductors (conduct heat) and electrical conductors.

Insulator – An insulator is a material that does not allow heat or electricity to easily travel through it. Woods and plastics are both thermal and electrical insulators.

Soluble – Materials that dissolve when introduced to water.

Insoluble – Materials that do not dissolve when introduced to water.

Transparent – A material that allows light to pass through it.



FOCUS SCIENTIST – RUTH BENERITO – WASH AND WEAR COTTON FABRICS



Ruth Benerito was an American chemist. She is best known for developing wrinkle-free cotton fabric. Benerito also invented a fat mixture that could provide nutrients through the veins of patients who could not eat. In 1986, Benerito retired from the USDA. She received 55 patents while working there. A patent is an official document that gives an inventor control over who may use their invention. In 2008, Benerito was inducted into the National Inventors Hall of Fame. She died on October

5, 2013, in Metairie, Louisiana.

CHANGES OF STATE

Mixtures Changes of State Some substances dissolve A mixture is the result of A reversible change of state refers to any when you mix them with combining two or more form of process that can be undone. water. When a substance substances, in which they do For example, when ice melts to water it dissolves, it might look like it not change their physical has disappeared, but in fact it state and no chemical goes from being a solid to a liquid. If you has just mixed with the water reaction takes place. These were to continue heating the liquid, it to make a transparent (seemixtures are reversible as would once again change state to a gas. through) liquid called a the substances included in the mixture can be The original ice cube could be restored separated without great once the water was collected by the Substances that dissolve in levels difficulty. process of evaporation and frozen again. water are called soluble Creating a mixture of two or Therefore the state of a substance is substances. When you mix

more objects may involve sand and water (suspension) or pasta and paperclips (mixture).

SEPARATING MIXTURES

interchangeable between a solid, liquid or



FILTERING - an insoluble solid

can be separated from a liquid

when passed through a filter.

The liquid passes through and

the solid particles are trapped

on the filter.

Water vapour

gas.

SIEVING - a mixture of different sized solid particles can be separated with a sieve. The particles small enough fall through the

you heat a raw egg to cook it. The cooked egg cannot holes of the sieve, whilst the largest particles remain within it.

Mixing substances can cause an irreversible change. For example, when vinegar (an acid) and bicarbonate of soda are mixed, the mixture changes and lots of

bubbles of carbon dioxide are made. These bubbles and the liquid mixture left behind, cannot be turned back into vinegar and bicarbonate of soda again. Burning

FORMATION OF NEW MATERIALS

chemical change, it is irreversible. A change is called

irreversible if it cannot be changed back to its original

Heating can cause an irreversible change. For example,

be changed back to a raw egg again.

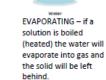
When substances create a new material through

Burning is an example of an irreversible change. When you burn wood,

you get ash and smoke. You cannot change the ash and smoke back to d again



gases



melt freeze evaporate transparent insulator cooling

condensation evaporation solids

liquids

conductor reversible process

Year 5 Science - Autumn 2

YEAR 5 SCIENCE — EARTH AND SPACE KNOWLEDGE ORGANISER

What have we learnt in this topic before and what we will learn this year?

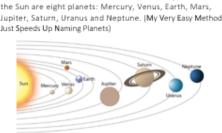
In EYFS and Year 1 we learnt about Seasonal Changes.

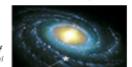
In year 5 we will learn:

Earth and Space

(solar system and movement)

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- describe the movement of the Moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.





satellites. There are billions of systems of s Together these form galaxies. Our galaxy, least 100 billion stars, is a spiral-shaped galaxy called the Milky Way.

FOCUS SCIENTIST – PTOLEMY AND COPERNICUS

Claudius Ptolemy - The Geocentric model (100 - 186AD)

Ptolemy's theory placed the Earth at the centre of

the universe. It was believed that the Moon was orbiting on a sphere closest to the Earth, followed

by Mercury, then Venus and then the Sun. Beyond

the Sun were a further three spheres on which

Mars, then Jupiter and then Saturn orbited the

Nicholas Copernicus - The Heliocentric model (1473-1543)

This placed the sun at the centre of the universe and the planets orbiting around the sun. The moon is the only celestial object that revolves around the earth.

THE SOLAR SYSTEM	THE JUN	INE EAKIN	
The Sun is a star at the centre of our Solar System. Orbiting the Sun are eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. (My Very Easy Method Just Speeds Up Naming Planets)	Our Sun is a star. It is no different from the other stars we see in the night sky, but it is a lot closer. A star is a massive ball of extremely hot, luminous gas (plasma) that is held together by its own gravity. It is not safe to look directly at the Sun, even when wearing dark glasses. Planets nearer to the Sun take less time to go around it than those further away. One year on Mercury is 88 Earth days. One year on Neptune is 165 Earth years. The sun rises in the East and sets in the West. It is at its strongest at midday.	The Earth is the fourth planet from the sun. It is a rocky planet. It takes the Earth 365 days {1 year} to orbit the Sun. The Earth rotates on its axis, taking 24 hours (one day) to make one complete rotation. The half of the Earth that faces the Sun experiences daytime, while the half that faces away from the Sun experiences night.	A moon is a celestial body that orbits a planet (Earth has one moon; Jupiter has four large moons and numerous smaller ones). The changing shapes that the Moon appears to take are called phases. A complete cycle of phases is known as a lunar month. The Moon takes approximately 29.5 days to make a complete orbit of the Earth. As the Moon orbits, light from the Sun is reflected by the Moon's surface. When the Sun, Earth and Moon are in approximate alignment, we see a full moon. This is because the side of the Moon reflecting sunlight is facing us. As the Moon rotates and orbits the Earth, list entire surface gets an equal amount of sunlight and darkness. There is a far side of the Moon that we never see from Earth. The Moon thavels in its orbit with the same side always pointing towards the Earth.
least 100 pillion stars, is a spiral-shaded adlaxy called the	1	1	

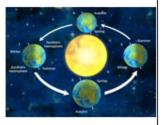
SEASONS

THE EARTH

The seasons are caused by the tilt of the Earth on its axis. This causes the North and South Poles to be angled towards or away from the Sun at different times of the year.

Close to the equator, the tilt is not very noticeable, so the weather doesn't change very much and there is little difference between the seasons.

When a hemisphere is tilted away from the Sun, the sunlight there is less intense and it is winter. When a hemisphere is tilted towards the Sun, the sunlight there is more intense and it is summer.



Earth. Finally, the outmost sphere was where all the stars were located.		Key	y Vocabulary					
Asteroid Comet	Dwarf Planet Galaxy	Light Year	Satelite	Star	Sun	Universe	Solar System	Plasma
Ptolemy Copernici	us Geocentric	Heliocentric	Revolves	Phases	Rotates	Axis	Celestial body	Orbit

THE MOON



THE SUN

YEAR 5 HISTORY - VIKINGS AND THE ANGLO-SAXONS KNOWLEDGE ORGANISER

Timeline

this year? In Year 3, we learnt about the 'Stone Age to the Iron Age' and also the 'Ancient Egyptians'.

SWhat have we learnt in this topic before and what we will learn

In Year 4, we then learnt about the Romans. These were all periods of time that preceded the Viking and Anglo-Saxon era.

This year we will be learning about the change of power within Britain from the Anglo-Saxon reign to the invasion of the Vikings.

ENRICHING THE CURRICULUM

To bring this unit to life, we visit the Chiltern Open Air Museum to spend some time recreating life in the Vik ing period.



LINDISFARNE MONASTERY

Lindisfarne, also known as Holy Island, was one of the first

landing sites of the Vikings. Monasteries were places where

monks lived and worshipped. Most people respected the monks

and gave them money and gifts for their monasteries; however,

the Vikings committed terrible violence against the Monks at

AD 793

The Vikings attack from Norway. They attack the Monastery of Lindisfarne in Northumbria. The following year they attack northern Britain, in what we now call Scotland,

AD 866 The Vikings capture the city of York and by 878 they had settled permanently in England, overran Wessex and forced King Alfred into hiding.

AD 871 Alfred the Great becomes Kine of Wessex. He drives the invading Vikings from the south but they stay in the north and the east

AD 886

King Alfred agrees to a treaty with the Vikings. Alfred keeps the west & the Vikings are given the east which is later known as 'Danelaw'.

WALES

AL.

DOTLAND LA

DANELAW

10 pr

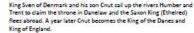
HORWAY, SWEDEN

DENMARK

AD 954

The last Viking King of Jorvik (York), Eric Bloodaxe, is forced out of York.

AD 1013



AD 1042

Edward II is invited to return from Normandy to become the King of England. Edward II was better known as 'Edward the Confessor' due to his extreme piety.

AD 1066 The last Anglo-Saxon king, King Harold, is defeated by William the Conqueror at the battle of Hastings and Norman Britain begins.

BATTLE OF HASTINGS

It might have taken place 950 years ago, but the Battle of Hastings remains one of the most famous battles in English history.

The bloody battle took place on the 14 October 1066. It was fought between William of Normandy and King Harold - the King of England - and it was the English throne that was at stake

The Normans were victorious, beating the Anglo-Saxons (the English to you and me). King Harold was killed and William of Normandy became King. Norman language and culture then began to influence the country and changed the future of England.





LIFE BEFORE THE VIKINGS INVADED

Growing up in an Anglo-Saxon village

Anglo-Saxon children had to grow up very quickly. By the time they were ten, they were seen as an adult. They had to work as hard as any adult and would be punished as adults if they stole or broke the law. Girls worked in the home. They were in charge of housekeeping, weaving cloth, cooking meals, making cheese and brewing ale. Boys learned the skills of their fathers. They learned to chop down trees with an axe, plough a field, and use a spear in battle

They also fished and went hunting with other men from the village. Only a few girls and boys learned to read and write. The sons of kings or wealthy families might be taught at home by a private teacher. The only schools were run by the Christian church, in monasteries. Some children lived there to train as monks and nuns

What jobs did the Anglo-Saxons do?

Life on an Anglo-Saxon farm was hard work. All the family had to help out men, women and children. Men cut down trees to clear land for ploughing and to sow crops. Farmers used oxen to pull ploughs up and down long strip fields. Children with dogs herded cattle and sheep. The Anglo-Saxons were great craftsmen too. Metalworkers made iron tools, knives and swords.

the time. After a battle, they



KING ALFRED THE GREAT

Alfred the Great (849-899) was the most famous of the Anglo-Saxon kings. Despite overwhelming odds he successfully defended his kingdom, Wessex, against the Vikines. He also introduced wide-ranging reforms including defence measures, reform of the law and of coinage.

He was a keen champion of education and translated important texts from Latin into English

Known as a just and fair ruler, Alfred is the only English King to have earned the title "the Great".

Top 5 Facts He had four older brothers who all ruled as king before he did.

-By 870 Northumberland, East Anelia and Mercia has all fallen to the Vikines. Wessex was the only Anelo-Sayon kinedom to hold out against the Vikines.

-in 870 Alfred and his brother Aetheired fought nine battles against the Vikings.

-in 879 Alfred won a decisive victory against the Vikings at Edington

-Alfred believed that all free born English boys should receive an education and he set up a school at his court educate his sons, as well as those of the nobles and

Key Vocabulary

Shield

EDWARD THE CONFESSOR

Edward the Confessor was an Anglo-Saxon King of England. He was the last king from the House of Wesser. Edward was a stepson of Canute the Great and after the death of his half brother Harthacruit, the son of Canute: he briefly resumed the rule of House of Wessex. He is remembered as a plous ruler who was resourceful and energetic He successfully defended his kingdom against invasions but after

his death, his successor Hatold Godwinson was unable to withstand a ruthless Norman conquest and within months England had fallen to the hordes of William the Conqueror. Almost a hundred years after his death, Edward the confessor was canonized by Pope Alexander III. He remained patron saint of England till 1350, when King Edward III approved Saint George as the patron saint of England.

Top 5 Fects Edward was the son of King Etheired the Unready and his wife Queen Emms. He had a brother, Alfred, and a sister, Godgifu, and nary half-brothers

-In 1013 the Danes Inveded England and Edward and his femily escaped to Normandy. His mother, Emma, was a Norman and dewinter of the Duke of Normanda

-Edward spent almost twenty-five years in Normandy and when he became King many of his closest advisors were Normans.

Although Edward was the King of England, much of the power rested in the hands of three Sexon Earls: Leofric of Mercia, Stward of Vorthumbria and Godwin of Wesser,

-Edward disliked the mos powerful of the Earls, Earl Godwin, because of the role Godwin had played in the death of 5dward's brother Alfred

York



The people of England wanted Harold to be king and crowned him King Harold II on January 6, 1066, the day after King Edward died. Another man who daimed the English throne wa King Hardrada of Norway. When King Hardrada of Norway Invaded England and King Harold II want to meet him in battle. William saw his chance. He gathered an army and crossed the English Channel making camp near the city of Hastings.

After King Harold II defeated the Norwegian Invaders, he turned south to face William, William, however, was ready for battle. William had brought archers and heavily armored cavelry called knights, Harold's foot soldiers were no match for William's forces and William won the bettle and King Harold II was killed by an arrow.

William continued to merch across England and eventually captured the city of London. Shortly after, on December 25, 1066. William was cro wried king of England.



Viking Lindisfarne

Lindisfame

Anglo-Saxon Longboat Axe

Scandanavia

Denmark

Monasterv

Danelaw



The Vikings were not all bloodthinsty raiders. Some came to fight, but others came to Britals

of megic and monsters around the fire.

What jobs did Vikings do?

Where did Vikings live?

What was Viking society like?

wealthy Vikings known as jarls. They were rich

landowners or traders and they employed men

to work for them. Then there were the karls.

They were the everyday people and did jobs

rich or important as the jarls, but they weren't

poor either. At the bottom of the pile were the

thrails or slaves. They did the herdest, dirtlest

jobs and if they tried to run away they could be

killed. However, If thrails could earn enough

money they could buy their freedom.

like farming and craft work. Karls weren't as

peacefully. Their longships brought families who sattled in villages. There were farmers, who kept

carvings. Everyone lived together in a large home called a longhouse. The Vikings also brought with them their way of life and beliefs. The Norse people worshipped many gods and loved to tail stories

Many Vikings worked as farmers. Everything had to be done by hand on a Viking farm, so life was

tough. Fermers grew outs, beriev and wheat. Then they ground the grain to make flour, porridge and

ale. They planted vegetables too, and kept animals like cows, sheep, pigs and chickens. Other Vikings

were creft workers. They made the things that people needed. Woodworkers and leatherworkers

Blacksmiths hammend and twisted red-hot iron into tools, knives and swords. Potters baked day

pots in an oven heated by wood fires. People took these goods to market to sell. Here a family could

buy anything from amber beach and apples, to wairus tusks and wolf-skins. Viking traders sold their

goods even further away. They safed the seas to buy silver, silk, spices and furs to bring back home.

Many Viking families lived together in a longhouse. This was built from wood or store and had a thatched or turf roof on top. With just one room for all the family to share with their animals, a

longhouse would have been a crowded and smelly place to live. There was no bethroom inside, but

the Vikings kept clean by washing in a wooden bucket or beside a stream. Instead of toilets, people

At the top of Viking society was the king. He was the most powerful person in all the land and everyone looked up to him. Being a king cost a lot of money, because they had to make sure their

kingdom was safe and that their followers were loyal to them. Below the king were the nobles or

time, Harold Godwinson

used a cessioit, which was a hole outside dug for tollet waste.

made plates, cups, belts and shoes. Jewellers made rings and brooches from precious metals

animals and grew crops, and skilful craft workers, who made beautiful metalwork and wooden



Year 5 GEOGRAPHY – Maps and Fieldwork

What have we learnt before in Geography and what we will learn next?

In Year 1, through the topic 'Where in the world do we live?' we learnt about where we live and began to use atlases and maps to identify countries and Cities in the UK.

In Year 2, in the topic "Where in the world?" we looked at a map of the world and learnt about where different countries and continents are located in the world.

In Year 3 we develop our key map skills by looking at OS maps, keys, map symbols, grid references and compass directions.

In Year 5, we will develop our map skills by looking at Ordnance Survey Maps in more detail and looking at land use.

WHAT IS FIELDWORK?

Fieldwork is when you go outside the classroom and try to find things out for yourself.

When carrying out fieldwork, you will need to:

- Observe a particular topic
- · Plan a way to measure or record the data
- Question different ideas and theories
- · Research information about a particular area of study
- · Collect and record data to back up your research
- Stay safe if it means working outside.
- Present your findings to conclude your study



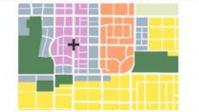


LAND USE

Land use is when an area is used for a specific purpose to meet the wants and needs of people. The land may be used as it naturally exists, like using a lake for swimming and boating. Or, the land may be changed so that it can be used for another specific purpose, such as a hole being blasted into the side of a mountain so railroad tracks can be laid for trains to pass through.

There are five main types of land use:

- Residential
- Agricultural
- Recreational
- Transportation
- Commercial



SOURCES OF INFORMATION

Information can be found in both primary and secondary sources.

Fieldwork involves collecting primary sources of information. Primary sources of information are things that were collected at the time, and include: photographs, diaries and videos.





A secondary source is information represented in: magazine, textbooks, atlases or websites. They are secondary because someone else has gathered the information.

When we compare our local area to that of somewhere else in the world, we rely on secondary sources to help educate us.

HUMAN AND PHYSICAL GEOGRAPHY

Human geography focuses on where people live, what they do, and how they use the land. Human geographers might study why cities and towns develop in certain places. Others study the cultures of different peoples, including their customs, languages, and religions.

We will look at our local area and the way humans have affected the land over time.

Physical geography is the study of the Earth's natural features, such as mountains, rivers, deserts and oceans. In physical geography, landforms and how they change are studied, as well as climate and its effects.

How does the physical geography of to another country?



Key Vocabulary

Map	Land Use	Symbols	Scale	Commercial	Key	Residential	Physical	Human Features	Comparison
Re	port	Climate	Economy	Agriculture	Residential	Recreation	Comparative	Fieldwork	Observe



What have we learnt before in Art

and what we will learn next?

In Year 3, we sketched images to

and learnt to use different grades

of pencil to shade, to show

different tones and textures.

lines to produce texture, use

shading to create mood and

feeling and organise line, tone,

shape and colour to represent figures and forms in movement.

In Year 6, we will then use our

sketches to communicate emotions

and a sense of self, explain why we

have combined different tools to create a drawing and explain why

we have chosen specific drawing

techniques.

Form refers to three

shapes have two

and depth)

width), forms have three

dimensions (height, width

Forms that are three

dimensional, such as

called real forms.

YEAR 5 ART - SKETCHING

KNOWLEDGE ORGANISER



CREATING TEXTURE

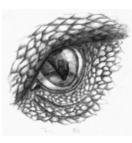
Texture means how something feels or looks like it feels.

There are two types of texture: actual texture and visual texture.

In all art and design, the appearance of texture is an important visual element. For our work this half term, texture is going to be so important to create.



Our final piece of a Dragon Eye, will incorporate all of our techniques with texture providing some stunning visual



USING GRADES OF PENCIL

Pencil grades tell you how light/hard and dark/soft a graphite pencil is.

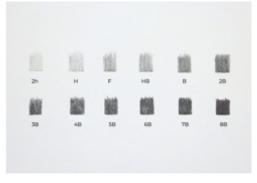
effects.

You might have noticed that graphite pencils have a H or B arade.

The H stands for hard and the B stands for blackness

The higher the number of the pencil, the darker the shade vou will have.

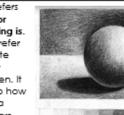
F pencil grade stands for fine, the pencil's graphite is harder so it maintains a fine point.



[Key Vocabulary				
tone	form t	exture	sketching	shade	dimensional	shadow	highlights	stippling	hatching
	crosshatching		scumbling	sculptor	depth	contrast	distance	movement	figures

LISING TONE

In Art, tone refers to how light or show facial expressions in drawing dark something is. Tones could refer to black, white and the grey In Year 5, we will identify and draw tones between. It could refer to how simple objects, and use marks and liaht or dark a colour appears.



In real life, tone is created by the way light falls on an object.

The parts of the object on which the light is strongest are called highlights and the darker areas are called shadows

Tone can be used for a range of effects:

- to create the illusion of form
- to create a particular atmosphere
- to create contrast and focus attention to suggest depth and distance

CREATING FORM LINK ARTIST – BARBARA HEPWORTH

Barbara Hepworth was a British sculptor, who was born in Wakefield, Yorkshire in 1903. She was a dimensional objects. While leading figure in the international art scene throughout a career spanning dimensions (height and five decades

Her works are inspired by abstract form. There are many tones, shadows and textures in her pieces and they are perfect to sketch and recreate the techniques. sculptures or buildings are



Year 5 DT - Autumn 2

YEAR 5 DT - MAKING BREAD

KNOWLEDGE ORGANISER



What have we learnt before in DT and what we will learn next? In Year 1, we looked at fruit salads

and what makes healthy options

In Year 3, we created a tea party

for a Roval celebration. We have

also considered what it means to

be hygienic and the importance

In Year 5, we will consider all of

hyaenic. We will plan, make and

evaluate our bread and then at

these skills and look at what it

means to be safe as well as

the end of the topic, make

presentation of a final piece.

at foods from WWII and the

importance of rationing.

In Year 6, we will go on to look

YEAST

The yeast used in baking bread is

responsible for the fermentation -

producing carbon dioxide which

contact with warmth (water) and

carbohydrates (flour) it produces

carbon dioxide hence the bubble

creates the rise in the dough.

When the yeast comes in to

holes in

bread.

changes and consider

in our diet.

of a clean surface.

BREAD



Early methods included smashing the grains with rocks to crush into a dust-like state and mixing with water to form a paste. They would leave the mixture in the sun to dry out, form a bread-like substance.

Some of the earliest evidence of bread 'rising' was seen engraved on the walls of Egyptian Pyramids and temples. They found that a product inside the bread, yeast, was responsible for it risina.

Today, we manufacture bread in vast numbers and have a range of different styles, tastes and textures. An American called Otto Rohwedder created a machine that would slice bread, and this was introduced to Britain in 1930.

WARBURTONS

At Warburtons. family is at the heart of their business.

That's because

long time! The processes

have changed since the

are still used.



they're a real family bakers still owned and run by the Warburton family. Five generations' worth of expertise goes into making their products and allows them to continue a tradition of baking which began back in 1876.

Today, they have grown to be the largest bakery brand in the UK. They produce over 2 million products every day at their 11 bakeries, which they deliver fresh to 18,500 stores every mornina!

THE NEED FOR KNEADING

Kneading stretches and develops the gluten strands in the dough. The protein strands line up and this creates a gluten matrix in the bread, which traps air and lets the bread rise.

Kneading lets you have full control over the finished texture of your loaf and involves punching, stretching and dragging the dough across a floured surface.

Once you have finished kneading the dough. You allow to sit in a covered bowl to prove. Whilst the dough proves, the yeast inside will activate, causing the dough to expand to over double its original sizel



HYGIENE IN THE KITCHEN

You must wash your hands before, during and of course after all aspects of food preparation. Hand washing is also essential after breaks or using the toilet.

Hair should be tied up or covered up to avoid strands of hair falling into dough. The same applies to jewellery: finding an earring inside a bread roll isn't ideal!

We must always work with clean equipment and surfaces, germs and bacteria can live on surfaces. This added to the dough and then heated could result in the bacteria growing faster

and stronaer!

We should take care to not put our fingers near our mouths or eyes when making the products as raw ingredients can sometimes be irritable.



ſ	bread	product	grain	wheat	barley	yeast	prove	knead	texture	rise
L	roll	bake	hygiene	centigra	de	ingredients	evaluate	taste	product	

Key Vocabulary

Year 5 Computing - Autumn 1

System

Input

Process

Output

	Overview		Transf	erring Information
	-You should also know that includes <u>computers</u> an <u>comp</u> -You should also know th Process and Outpu -Computer systems are bu -Computer systems can com -There are many, many o systems all around the wor	tems Information technology (I.T.) d things that work with puters. hat computers have Input, t (IPO) components. will using a number of parts. municate with other devices. different kinds of computer Id, ranging from small-scale pe scale.	 Protocols and Packets Protocols are an agreed way of doin something. When we communicate, we use an agreed set of protocols (greeting, speaking, listening, etc.). In computing, agreed protocols are the way that computers communicate with one another. The digital information they send is called a 'packet.' 	in the same place as one another. With billions of computers around the world, computers need to send the information to the correct place.
-Computer systems are m device), processes (the way ti	Systems t of things working together as ade up of inputs (something the he device acts on the message) by the device). Below are some	at sends a message to the and outputs (something that	 	My IP Address 63.255.173.183
Washing Machine:	DVD Player:	Smart Locker:	-Collaborating is another word for w	orking together on
Input: Dials and buttons. Process: The computer inside follows a program. Output: The clothes are washed and the display shows the remaining time.	Input: The disc is inserted and play is pressed on the remote. Process: The system reads the information on the disc Output: The screen displays the movie/ show.	Input: The customer scans in a barcode. Process: The code is recognised by the system. Output: The correct locker is opened.	something, to reach a shared goal. -The internet can be used to help per online, even when they are a long dis -'Chat' functions can be used keep er with new information. -Shared 'cloud' spaces and online driv more person to have access to/ edit d -When building upon someone else's aware of copyright and intellectual p	tance apart! th other updated ves can allow one or ocuments. work, you need to be

Protocol

IP Address

Packet

Explore

Collaboration

Reuse

Knowledge Organiser: Year 5 Gymnastics Unit 1 **Prior Learning:** Have become more confident to perform apparatus, action cards, tabletops. skills consistently. Can work to improve sequences and individual actions. Can work in groups and aim to perform sequences in time with others. Can make changes to sequences using compositional ideas. Unit Focus: Create longer and more complex sequences and adapt performances. Take the lead in a group. Develop symmetry. Compare performances and judge strengths and areas for improvement. Select a component for improvement. Head: Selects a component for improveme guidance from others. Hand: Attempt to perform more complex s isolation such as round-off.

Heart: Work responsibly in trust exercises counterbalancing.

Equipment needed: Mats, hoops, cones, wall bars, beanbags, low

Symmetrical		Key Vocabulary/Ski	ills					
	counterbalar	nce	Round off.			Symmetry, asymmetry,		
Q Q			Explore symmetry.		sequences, combinations, direction, speed, partner,			
			Explore asymmetry	•		asymmetrical,		
		7	Counterbalances.		symmetrical, aesthetics, counterbalance.			
	\sum		Performing.				L	
ne		perfo aest	e stions: t makes a prmance netically pleasing? can you be a good		Concepts: A counterbalance is created whone weight balances another. The counterbalance allows a person to stay balanced even			
	partn		· ·		when t	heir centre of gravity . With a partner,	;	
skills in 3. Why			do you need good cou			nterbalance can be created ulling/holding or pushing.		
5	and when	partr	er or group?					

THE PE HUB