## **Cheetwood Community Primary School**



## Science Skills, Knowledge and Knowledge Categories

Year	Term	Scheme of	Skills	Knowledge	Knowledge
group		Work	(What do we want them to do by the end of the unit?)	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2) pieces of knowledge by the end of the unit?)	Categories
Nursery	Autumn	Materials Animals inc humans Seasons Forces	I can talk about what I see in the environment using specific vocabulary. I can collect litter and keep the environment clean. I can observe and identify natural autumnal features within the environment. I can begin to see the outcome of a magnet (attract/repel). I can explore a variety of wind up toys. I can talk about different forces I can feel.	To be able to use all their senses in hands-on exploration of natural materials. To understand the need to respect and care for the natural environment and all living things. To understand how the weather changes in different seasons. To understand push and pull.	Chemistry Biology Physics Working Scientifically
	Spring	Materials Animals inc humans Seasons Forces	I can talk about differences between materials. I can begin to talk about changes (ice/chocolate melting). I can begin to explain the life cycle of a plant. I can begin to identify some plants in our environment.	To be able to explore collections of materials with similar/different properties. I know plants grow from a seed/bean. I know some of the things that a plant needs to grow.	Biology Chemistry Working Scientifically

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group		Work	(What do we want them to do by the end of the unit?)	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2) pieces of knowledge by the end of the unit?)	Categories
			I can use my senses to explain what I can see/hear/feel in the environment.		
	Summer	Materials Animals inc humans Seasons Forces	I can make observations and begin to ask questions. I can begin to investigate some materials attracting and repelling magnets. I can identify some minibeasts. I can identify habitats for minibeasts in our environment. I can begin to explore pulleys in the outdoor environment.	I am able to explore collections of materials with similar/different properties. I know some key features of a duck lifecycle. I know 3 facts about spiders. I know some key vocabulary: leaves, flowers, rock and the names of some minibeasts.	Biology Physics Working Scientifically
Reception	Autumn	Materials	I can explore natural materials using my 5 senses.	I know the 5 senses. I know some animals that are nocturnal such	chemistry Biology
		Animals inc humans	I can explain what nocturnal means. I can describe what I see, hear and feel outside in autumn.	as bats, owls and hedgehogs. I know the signs of autumn. I know some animals behave differently in	Working Scientifically
		Seasons		different seasons.	

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			I can name different types of weather in autumn.	I know what hibernates means.	
	Spring	Materials	I can begin to explore which materials protect us from the rain and sun.	I know that light can travel through some materials.	Chemistry
			I can begin to talk about ice and how and why it melts.	I know the key features of a plant.	Physics Biology
		Plants	I can observe and talk about how plants grow over time.	I know what happens to ice when the weather gets warmer.	Working Scientifically
			I can begin to talk about the bean lifecycle.		
		Seasons	I can observe how plants draw up water through the stem.		
	Summer	Materials	I can begin to test whether some materials are waterproof.	I know some vocabulary such as waterproof, attract and repel.	chemistry Biology
		Plants	I can begin to make predictions for which materials float or sink.	I know the names of some plants.	Physics
		Animals	I can identify some plants and insects.	I know the names of some insects.	Working
		inc humans	I can explore natural habitats of insects.	I know some facts abouts life under the sea.	Scientifically
		Seasons			

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			the unit?)	pieces of knowledge by the end of the unit?)	
		Forces	I can help protect the environment by keeping it clean and planting.	I know the importance of looking after the environment.	
		Light and	I can explore how kites fly.	I know one fact about each season.	
		Shadow		To begin to understand how a magnet works.	
				To begin to know what shadows are.	
1	Autumn	Identifying	I can name and describe some common	I know the names of a variety of common UK	Biology
		Animals	animals and group them into carnivores,	birds & reptiles, fish & amphibians including	Manhine.
		including Ocean	herbivores and omnivores.	ocean animals and what they look like.	Working
		Animals	I can identify differences between UK birds & reptiles, fish & amphibians and ocean animals.	I know and can compare the structure of a variety of common animals including ocean animals.	Scientifically
			I can tell you what animals need to grow.		
			I can describe why animals are structured the way they are to adapt to the ocean.	I know what carnivores, herbivores and omnivores are.	
				I know how to take care of animals.	
				I know how ocean animals are suited to the environment in which they live.	

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group		Work	(What do we want them to do by the end of	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2)	Categories
			the unit?)	pieces of knowledge by the end of the unit?)	
	Spring 1	Everyday	I can identify different materials.	I know the name of a variety of everyday	Physics
		Materials		materials, including wood, plastic, glass, metal,	
			I can tell you what material an object is made	water, and rock.	Working
			from.		Scientifically
				I know the physical properties of a variety of	
			I can compare and group together a variety of	everyday materials.	
			everyday materials based on their physical		
			properties.		
			I can investigate which materials are best to		
			use for an umbrella.		
	Spring 2	Identifying	I can make observations of plants.	I know the name of a variety of common wild	Biology
		Plants		and garden plants, including deciduous and	
			I can identify and describe the basic structure	evergreen trees.	Working
			of common flowering plants, including trees.		Scientifically
				I know the basic structure of a variety of	
			I can recognise a variety of common wild and	common flowering plants, including trees	
			garden plants, including deciduous and		
	Current	Mypedy	evergreen trees.	I know the habitat for plants to grow.	Dielerry
	Summer	My Body	I can label body parts.	I know the 5 senses and which body part they are connected to.	Biology
	1		I can talk about the human life cycle.		Working
				   know some body parts	Working Scientifically
			I can tell you the 5 senses.	l know some body parts.	Scientifically
			i can ten you the 5 senses.	I know the human life cycle	
	Summer	Seasonal	L can abconyo waathar changes throughout the	I know the changes within the four seasons	
	Summer 2	Changes	I can observe weather changes throughout the		
	2	Changes	seasons.	and how the day length varies.	

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			the unit?)	pieces of knowledge by the end of the unit?)	
			I can tell you how humans and animals adapt	I know that seasons change throughout the	
			to each season.	year because of the way the Earth travels	
				around the Sun.	
			I can talk about how the weather changes		
			throughout the seasons.	I know that Summer is the hottest season and	
				Winter is the coldest.	
		Growth &	I can match animals to their offspring.	I know some animals give birth and some	Biology
	Autumn	Survival		animals lay eggs.	
			I can explain through investigation how		Working
2			humans grow	I know the 5 human stages of growth are	scientifically
				baby, toddler, child, teenager, adult.	
			I understand how the environment is a factor		
			in animal survival and can explain this by	I know all animals need food, water and air to	
			giving examples.	survive.	
			I can explain the importance of eating	I know the terminology: carbohydrate,	
			healthily and what a balanced diet is	proteins, fats, sugars, vegetables and dairy	
			I can explain how exercise keeps people and	I know exercise builds strength in muscles	
			animals healthy.	including the heart muscle	
		Exploring	I can identify and describe properties of	I know some materials are natural and some	
	Spring 1	Everyday Materials	materials.	are man-made.	Chemistry
			I can identify materials that are natural and	I know that different materials can be used for	Working
			materials that are man-made.	the same product.	Scientifically

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			I can identify the suitability of metal and plastic for a variety of purposes. I can identify different products that can be made from wood.	I know some scientists such as John Dunlop, Charles Macintosh and Josh McAdam and what they are famous for inventing.	
		Living in	I can investigate the flexibility of materials. I can describe what a habitat must provide for		Biology
	Spring 2	Habitats	its inhabitants	I know the differences between things that	Diology
				are living, dead, and things that have never	Working
			I can identify and name animals that live on the coast	been alive.	Scientifically
			I can explain some of the food chains that live on the coast	I know different animals, habitats and food sources and why habitats are suitable in providing the basic needs for animals living there.	
				I know basic food chains.	
		Growing Plants	I can explain the process of seed dispersal	I know that different seeds grow into different plants	Biology
	Summer		I can plan, carry out and evaluate an		Working
	1		investigation about the conditions that affect germination.	I know some plants can be grown from bulbs	Scientifically
			To can observe and describe how a plant changes as it matures.	I know some plants disperse their seeds.	
				I know what seed dispersal is.	

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			the unit?)	pieces of knowledge by the end of the unit?)	
	Summer	Super	I can explore our senses and reflexes.	I know who Isaac Newton, Andrew Graham	Chemistry
	2	Scientists		Bell and Thomas Edison are and what they	
			I can observe the effects of germs growing.	each invented and discovered.	Physics
			I can create a basic electrical circuit.	I know that gravity pulls all objects downwards	Working
				towards the centre of the Earth.	Scientifically
			I can explore the effects the gravity.		
				I know how germs transfer and diseases	
			I can tell you what happens when light travels	spread.	
			through transparent objects.		
	Autumn	Health &	I can explain what a healthy, balanced diet is.	I know that the two main reasons humans	Biology
		Movement		need food is for growth and energy.	
3			I can name and locate some of the major		Working
			bones in the human body.	I know that animals, including humans, get the	Scientifically
				nutrition they need from what they eat,	
			I can make different movements with my body		
			and explain which muscles I am using.	I know that we have skeletons to support our	
				bodies and protect our internal organs.	
			I can describe similarities and differences		
			between human and animal skeletons.	I know that we need muscles to help us move.	
		Rocks,	I can identify, classify and group rocks based	I know where rocks come from and that rocks	Chemistry
	Spring 1	Fossils &	on their properties and specific criteria.	are split into three main groups.	
		Soils			Working
			I can plan, carry out and evaluate	I know what erosion is and what causes it.	Scientifically
			experiments to compare rocks.		
				I know that there are different layers of soil.	
			I can explore soil and how it is formed.		

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group		Work	(What do we want them to do by the end of	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2)	Categories
			the unit?)	pieces of knowledge by the end of the unit?)	
				I know that a fossil is the petrified remains of	
			I can explore what fossils are and how they	plants and animals.	
			are formed.		
				I know that a pedologist is a scientist that	
			I can classify fossil samples according to	studies soil and a palaeontologist is a scientist	
			various criteria and identify fossilised remains.	who studies fossils.	
		Forces &	I can describe what a force is.	I know that a force is a push or a pull on an	
	Spring 2	Magnets		object.	Physics
			I can compare how things move on different		
			surfaces	I know what a forcemeter is and can use one	Working
				to measure forces in newtons.	Scientifically
			I can explain how magnetic forces work.		
				I know that some forces, like gravity and	
			I can identify magnetic materials.	magnetism, do not need contact between two	
				objects to make things move.	
			I can describe lots of different uses for		
			magnets.	I know that magnets have a north pole and a	
				south pole.	
				I know that some materials are magnetic and	
				others are not.	
	Summer	How Plants	I can order the stages in the life cycle of	I know the main features of flowering plants	
	1	Grow	flowering plants.	and what their functions are.	
			I can identify and describe the functions of the	I know that plants make their own food using	
			roots, stem, leaf and flower of	air and sunlight.	
			flowering plants.		

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			the unit?)	pieces of knowledge by the end of the unit?)	
				I know how pollination and seed dispersal	
			I can investigate the way in which water is	occurs.	
			transported within plants.		
				I know how the ovaries of flowering plants	
			I can explain pollination, seed formation and seed dispersal.	grow to form seeds.	
				I know the structure of seeds.	
			I can explain the structure of seeds and their importance as a food source.		
	Summer 2	Light & Shadow	I can explain what shadows are and why they are formed.	I know we need light in order to see.	
				I know some differences between night and	
			I can explain how shadows behave.	day, including how the Sun rises and sets.	
			I can explain how the size of shadows change throughout the day.	I know how shadows are made.	
				I know that some surfaces reflect more light	
			I can explain how light is reflected from surfaces.	than others.	
	Autumn	Eating &	I can construct and interpret a variety of food	I know how to create food chains, identifying	Biology
		Digestion	chains.	producers, predators and prey.	
4				I know the different types of teeth in hymons	Working
			I can identify and classify carnivores,	I know the different types of teeth in humans.	scientifically
			herbivores and omnivores.	I know why it is important to look after teeth and	
				how to keep them healthy.	
			I can name the different types of teeth in		
			humans and identify their functions.		

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				I know about the digestive system: its organs and	
			I can name and label some of the organs	their functions.	
			associated with the digestive system.		
			I can explain how the digestive system works.		
	Spring 1	States of	I can compare and group materials based on	I know the difference between solids, liquids	Chemistry
		Matter	whether they are solids or liquids.	and gases based on their particles.	
					Working
			I can research the temperatures at which	I know that materials change state when they	scientifically
			materials change state.	are heated and cooled.	
			I can explain the process of evaporation and condensation.	I know that different materials have different freezing/melting points.	
				I know how evaporation and condensation are used in the water cycle.	
	Spring 2	Changing	I can explain the relationship between	I know that sounds are created when objects	Physics
		Sound	distance and volume.	or materials vibrate.	
					Working
			I can explain that some materials are effective	I know that sound can travel through different	scientifically
			in preventing vibrations from sound sources reaching the ear.	materials.	
				I know that sounds get fainter as the distance	
			I can recognise changes in pitch and identify high and low notes.	from the sound source increases.	
				I know the terms pitch and volume.	

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			the unit?)	pieces of knowledge by the end of the unit?)	
			I can suggest ways to change the pitch of a		
			sound made by air.	I know that the pitch of a stringed instrument	
				depends on the length, thickness and tightness	
				of the string.	
	Summer	Circuits & Conductors	I can construct a simple circuit.	I know the main components of a circuit.	Physics
	1		I can identify common appliances that use	I know why some appliances are mains	Working
			electricity.	powered rather than battery powered.	scientifically
			I can identify and label the components of a	I know some of the dangers of electricity and	
			circuit	how we can stay safe around electricity.	
			I can set up a fair test and make predictions	I know the difference between a conductor	
			about whether a material is a conductor or insulator.	and an insulator.	
				I know how to make a light bulb glow brighter	
				or dimmer.	
	Summer	Living in	I can identify a variety of habitats and explain	I know what a habitat is and that animals live	Biology
	2	Environmen	why organisms live in different habitats.	in habitats that are suited to their needs.	
		ts			Working
			I can classify animals into specific groups	I know how to use a classification key to	scientifically
			according to their characteristics	identify animals.	
			I can identify similarities and differences	I know that animals can be categorised into	
			between similar organisms and make careful	broad groups according to their characteristics.	
			observations to identify the characteristics of		
			different organisms		

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			the unit?)	pieces of knowledge by the end of the unit?)	
				I can use Venn Diagrams and Carroll diagrams	
			I can identify and classify a variety of British	to sort plants according to some of their	
			plants.	characteristics.	
				I know the impact humans can have on a habitat.	
		Changes &	I can sequence the stages of growth.	I know the stages of growth and development	Biology
5	Autumn	Reproductio		in humans and how the body changes during	
		n	I can compare the gestation periods of	childhood, adulthood and old age.	Working
			humans to other animals.		scientifically
				I know the stages in the gestation period of	
			I can describe how a human body changes as we enter old age from adulthood.	humans and compare them to other animals.	
				I know the changes that occur to the body	
			I can describe the differences between a girl's	during puberty and how they differ for boys	
			and boy's body as it develops.	and girls.	
			I can carry out an investigation to show that		
			the body gets larger as we get older.		

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group		Work	(What do we want them to do by the end of	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2)	Categories
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	Spring 1	Earth & Space	I can describe the movement of the Earth, and other planets, relative to the Sun in the solar	I know that the Sun, Earth and Moon are approximately spherical bodies.	Physics
			system.	I know the size of the Earth, Sun and Moon	Working scientifically
			I can describe the movement of the Moon relative to the Earth.	and how far away from each other they are.	
			I can use the idea of the Earth's rotation to	I can explain day and night and the apparent movement of the Sun across the sky.	
			explain day and night and the apparent movement of the sun across the sky.	I know the Earth's rotation causes us to perceive the Sun to be moving across the sky.	
			I can use data to draw conclusions about the Sun at different times of the year.	I know the different phases of the Moon and what a luna month is.	
	Spring 2	Forces in Action	I can carry out an investigation to explore the effects of gravity.	I know that gravity pulls objects towards the centre of the Earth.	Physics
			I can explain which surface has the most friction when an object is moved across it.	I know that the weight and size of an object determines the impact of its fall.	Working scientifically
			I can explain how the size of a parachute affects the speed at which it falls to the ground'	I know that friction is the force that acts as resistance.	
			I can explain which shape of plasticine would fall quickest in a pot of water.	I know that water resistance is the force that pushes against objects as they pass through the water.	

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group		Work	(What do we want them to do by the end of	(what are the 3(EYFS), 4 – 5 (KS1), 5-6 (KS2)	Categories
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			I can create some simple pulleys, exploring the	I know that the shape of an object dictates	
			different forces needed to pull the same	how much water resistance it will meet as it	
			object.	moves through the water	
			I can plan and carry out fair tests, taking	I know that pulleys and levers make heavy	
			measurements, making predictions, making observations, recording results and drawing	objects easier to lift and can explain why	
			conclusions.	I know that gears allow a smaller force to have a greater effect.	
		Properties	I can mix a variety of materials with water to	I know that dissolving is a reversible change	Chemistry
	Summer	& Changes	see whether they will dissolve, float, sink or	and that an irreversible change occurs when	
	1	of Materials	react.	two materials react with each other to form a	Working
				new substance.	scientifically
			I can compare and classify materials		
			depending on whether they dissolve, float,	I know that filtering is a good way to separate	
			sink or react when mixed with water.	water from insoluble materials.	
			I can investigate and explain the reversible and	I know that soluble materials, such as sugar,	
			irreversible changes caused by heating or cooling materials or mixing different materials together.	are able to be separated from water through evaporation.	
				I know that some materials change state when	
			I can carry out a variety of investigations to	they are heated or cooled and whether these	
			explore the properties of materials to see if	are reversible or irreversible changes.	
			they e.g. conduct electricity, are magnetic, are		
			soluble, etc.	I know that when a material is burned, it	
				produces a new product.	
			1		

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	Summer 2	Life Cycles	<ul> <li>I can dissect a flower to explore the male and female parts of the plant.</li> <li>I can describe the process of sexual and asexual reproduction in flowering plants.</li> <li>I can explain the life process of reproduction in some animals.</li> <li>I can compare the life cycles of animals living in a variety of environments.</li> </ul>	I know how flowering plants reproduce sexually and asexually. I know about sexual reproduction in animals, such as reptiles and fish. I know about the life cycles, gestation periods and growth of animals. I know that the environment in which an animal lives affects the way it reproduces.	Biology Working scientifically
			I can classify a variety of animals according to how they reproduce.	I know about the work of naturalists and animal behaviourists.	
6	Autumn	Healthy Bodies	I can use scientific ideas to explain a balanced diet. I can explain how nutrients and water are transported within animals and humans. I can describe the functions of the heart, lungs and circulatory system. I can conduct practical experiments and explain the effects of exercise on the heart.	I know how historical health problems were caused. I know about the significance of James Lind and how he helped develop a better understanding of how diet affects health. I know what each food group provides our bodies with and the quantities needed. I know that the human circulatory system transports blood and nutrients to the different parts of the body.	Biology Working Scientifically

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			I can recognise the impact of diet, exercise,	I know that muscles work in pairs to move	
			drugs and lifestyle on the way their bodies function.	different parts of the skeleton.	
				I know that some drugs are beneficial even	
			I can explain the differences between drugs and their positive/harmful, legal/illegal.	though they may have unpleasant side-effects.	
				I know that drugs affect the way the mind or body works and can name 2 ways.	
		Seeing Light	I can describe natural and man-made light	I know that light travels in straight lines.	Physics
	Spring 1		sources.		
				I know how shadows can be manipulated.	Working
			I can explain how light travels.		Scientifically
				I know that light can change direction when it	
			I can explain how light and shadows work.	is reflected.	
			I can explain how the colour/object can change a shadow formation.	I know what happens to light when it's refracted.	
			I can explain the difference between whether or not an object will 'reflect' or 'refract' light.	I know what characteristics reflective surfaces have.	
			I can name and label different parts of the eye.	I know different parts of the eye and what they do.	
			I can discuss Isaac Newton's experiments with prisms and discuss how we see colours.	I know that white light can be split into a spectrum of seven colours.	

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	Spring 2	Changing	I can draw and use conventional symbols for	I know the differences between series and	Physics
		circuits	circuits.	parallel circuits.	
					Working
			I can design and build a simple circuit for a	I know that changing certain components	Scientifically
			purpose.	within a circuit could affect the brightness of a	
				bulb or the speed of a motor.	
			I can compare and give reasons for variations		
			in how components function.	I know that the length and thickness of a wire	
				and the materials that may be tested,	
			I can conduct an investigation to see how	determine the brightness of a bulb.	
			different wires can affect the brightness of a		
			bulb.	I know how the voltage of cells used in the	
				circuit affects the components.	
		Evolution &	I can identify ways in which families	I know that traits are passed from one	Biology
	Summer	Inheritance	or groups of people have some similar or	generation to the next and that characteristics	
	1		shared characteristics.	which are inherited may vary.	Working
					scientifically
			I can explain why variation in offspring occurs.	I know that evolution occurs through	
				advantageous traits of a species being passed	
			I can identify characteristics which help an	on.	
			organism to be well suited to its environment.		
				I know that not all inherited characteristics are	
			I can explain how animals and plants have	advantageous.	
			adapted to suit their environment in different		
			ways.	I know that random mutations may or may not	
				be passed from one generation to the next.	

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			the unit?)	pieces of knowledge by the end of the unit?)	
			I can use different evolutionary scientists'	I know how animals and plants are adapted to	
			work to identify advantageous traits.	suit their environment and that adaptation	
				may lead to evolution.	
			I can talk about the work of Carl Linnaeus and,		
			particularly, that of Charles Darwin and can	I know that primate species (including	
			share what they have learned about the process of evolution.	humans) have changed over time.	
				I know that living things have changed over	
				time and that fossils provide information	
				about living things.	
	Summer	Classifying	I can classify plants based on specific	I know the difference between flowering and	Biology
	2	Organisms	characteristics.	non-flowering plants.	
					Working
			I can explain the difference between vascular	I know how plants are classified by botanists.	scientifically
			and nonvascular plants.		
				I know what microorganisms need to survive	
			I can classify and group microorganisms and	and how they can be grouped.	
			animals based on specific characteristics.		
				I know about the development of Linnaeus'	
			I can research about the development of	classification system.	
			Linnaeus' classification system, then use it to		
			identify and classify different organisms.	I know who Carl Linnaeus was and how he	
				contributed to science.	