		Chulmleigh Primar	y School- Science Ove	erview		
NC Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Asking questions	Ask simple questions and rec can be answered in differen		Ask relevant questions a scientific enquiries to an Set up simple practical e and fair test	swer them	Plan different types of s answer questions, inclu controlling variables wh	ding recognising and
	Observe closely, using si Perform simple tests Gather and record d questions	mple equipment ata to help in answering	Make systematic and car where appropriate, take measurements using sta range of equipment, incl and data loggers	accurate ndard units, using a luding thermometers	Take measurements, usi equipment, with increas precision, taking repeat appropriate	ing accuracy and readings when
			Record findings using sir drawings, labelled diagra and tables Gather, record, classify a variety of ways to help in	ams, keys, bar charts, and present data in a n answering question	keys, tables, scatter gra	s and labels, classification phs, bar and line graphs
Itifically	Identify and classify Use their observations a answers to questions	nd ideas to suggest	Identify differences, simi related to simple scientif Report on findings from and written explanations presentations of results Use straightforward scie answer questions or to s	fic ideas and processes enquiries, including oral s, displays or and conclusions ntific evidence to	support or refute ideas of Report and present findi including conclusions, ca explanations of and deg oral and written forms s	ngs from enquiries, ausal relationships and
					presentations	

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		Chulmleigh Primary So	chool- Science Overview		
	Evaluating	pre	e results to draw simple conclusions, edictions for new values, suggest provements and raise further question	furthe	st results to make predictions to set up r comparative and fair tests
	<u>Plants</u>	Animals including human	ns <u>Living things and the</u>	<u>ir habitats</u>	<u>Materials</u>
Year 1	Identify and name a variety of common wild and garden plants, including deciduous and evergreen treesIdentify and describe the basic structure of a variety of common flowering plants, including treesSeasonsObserve changes across the four seasonsObserve and describe weather associate with the seasons and how day length varies	mammals, including pets)	vores, cture · (fish, the		Distinguish between an object and the material from which it is made 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 based on their simple physical properties.
Year 2	Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	Notice that animals, including humans, have offspring which g into adults Find out about and describe the needs of animals, including hun for survival (water, food and air Describe the importance for hu of exercise, eating the right am of different types of food, and h	things that are living, dead that have never been aliving nans, Identify that most living habitats to which they ar imans describe how ounts different habitats provide	d, and things e things live in re suited and the basic	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare and know the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard

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			o lo a m D fr ic	lants, and how they d ther dentify and name a va nd animals in their ha hicro-habitats escribe how animals o om plants and other a lea of a simple food cl nd name different sou	riety of plants bitats, including obtain their food animals, using the hain, and identify	

	<u>Plants</u>	<u>Animals including</u> <u>humans</u>	Living things and their habitats	<u>Materials</u>	Light and Sound	Forces and magnets	<u>Electricity</u>	Earth and space
Year 3	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant			Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties Describe in simple terms how fossils are formed when things that have lived are trapped within rock Recognise that soils are made from rocks and organic matter.	Recognise that they need light in order to see things and that the dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect their eyes	Compare how things move on different surfaces Notice that some forces need contact between two objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some materials and not others		

			Chulmleigh I	Primary School- So	cience Overview			ACADEMY TRUST
	Investigate the way in which water is transported within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal		Chulmleigh I	Primary School- So	Recognise that shadows are formed when the light from a light source is blocked by a solid object Find patterns in the way that the size of shadows changes	Compare and group together a variety of everyday materials on the basis on whether they are attracted to a magnet, and identify some magnetic materials Describe magnets as having two poles Predict whether two magnets will attract or repel each other, depending on which poles are		
Year 4	<u>Plants</u>	Animals including humans	Living things and their habitats	<u>Materials</u>	Light and Sound	facing Forces and magnets	<u>Electricity</u>	Earth and space
		Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make	Recognise that living things can be grouped in a variety of ways Explore and use classification keys to help group,	Compare and group materials together, according to whether they are solids, liquids or gases.	Identify how sounds are made, associating some of them with something vibrating Recognise that		Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying and naming its basic parts,	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make

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their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	identify and name a variety of living things in their local and wider environment Recognise that environments can change and that this can sometimes pose dangers to living things	Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics.	vibrations from sounds travel through a medium to the ear Find patterns between the pitch of a sound and features of the object that produced it	including cells, wires, bulbs, switches and buzzers Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery	their own foo they get nutrition fron what they eat Identify that humans and some other animals have skeletons and muscles for support, protection an movement
Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in humans and their simple functions Construct and interpret a variety of food chains, identifying producers, predators and prey		Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Find patterns between the volume of a sound and the strength of the vibrations that produced it Recognise that sounds get fainter as the distance from the sound source increases	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit Recognise some common conductors and insulators, and associate metals with being good conductors	Describe the simple functions of th basic parts of the digestive system in humans Identify the different types of teeth in humans and their simple functions Construct an interpret a var of food chain identifying producers, predators and p

		Chulmleigh	Primary School- Sc	ience Overview			
Year 5 <u>Plants</u>	<u>Animals</u> including humans	Living things and their habitats	Materials	Light and Sound	Forces and magnets	Electricity	Earth and space
	Describe the changes as humans develop to old age	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals	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 Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic Demonstrate that dissolving, mixing and changes of		Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Identify the effects of air resistance, water resistance and friction, that act between moving surfaces Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect		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.

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				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.				
Year 6	Plants	Animals including humansIdentify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and bloodRecognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and	Living things and their habitats Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics Recognise that living things have changed over	Materials	Light and SoundRecognise thatlight appears totravel in straightlinesUse the idea thatlight travels instraight lines toexplain thatobjects are seenbecause they giveout or reflect lightinto the eyeExplain that wesee things becauselight travels fromlight sources toour eyes or fromlight sources to	Forces and magnets	Electricity Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of	Earth and space

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transported for within animals, including live humans. Ea yea Ration live humans. Ea yea Ration live public live live live live live live live live	ime and that ossils provide information about iving things that inhabited the Earth millions of rears ago Recognise that iving things oroduce offspring of the same kind, but normally offspring vary and are not identical o their parents dentify how animals and plants are adapted to suit their environment in different ways and hat adaptation nay ead to evolution	objects and then to our eyes Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	buzzers and the on/off position of switches Use recognised symbols when representing a simple circuit in a diagram	