

Highlight each objective when pupils have been taught this area and can confidently portray this skill. Complete one sheet per class, whilst noting in the comments any children who are working at greater depth or those who need additional support and so are working towards the year group objectives.

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2021 / 2022 Class:		Number of pupils in class:		Percentages	ARE:	GD:			
Pupils working at g within their year g	greater depth roup expectations:								
Pupils working below year group expectations:									
	Science Key Skills in Year 3								
scientific questions Set up a simple enqu scientific question Set up a test to comple set up a fair test and accomple Make careful and accomple including the use of standard data loggers to muse Gather, record, classi	iry to explore a  pare two things. explain why it is fair. curate observations, candard units. iding thermometers ake measurements. fy and present data in over scientific questions. par charts and tables; age. it in different ways, cten explanations, d suggest th a reason. similarities and	Rocks, soils and fossils - Compare and group the kinds of rocks on the bappearance and simple - Describe in simple terformed when things the trapped within rock Recognise that soils a and organic matter. Food and our bodies - Identify that animals, need the right types are and that they cannot reflect they get nutrition from ledentify that humans animals have skeletons support, protection and the side of the	ogether different pasis of their physical properties. The how fossils are not have lived are are made from rocks  including humans, and amount of nutrition make their own food: a what they eat. and some other a and muscles for	Forces and magnets - Compare how things surfaces Notice that some force between two objects, can act at a distance Observe how magnet other and attract some others Compare and group to everyday materials on they are attracted to a some magnetic material Describe magnets as - Predict whether two repel each other, depeare facing.  The nappy challenge - Make systematic and and, where appropriate measurements using some range of equipment in and data loggers.	ces need contact but magnetic forces attract or repel each e materials and not cogether a variety of the basis of whether magnet, and identify als. having two poles. magnets will attract or nding on which poles careful observations e, take accurate tandard units, using a	Light and shadow - Recognise that we ne things and that dark is - Notice that light is reference and that the protect the eyes Recognise that shadod the light from a light so solid object Find patterns in the washadows change. Plants - Identify and describe different parts of flowers stem / trunk, leaves and Explore the requirement and growth (air, light, soil, and room to grow from plant to plant Investigate the way in transported within plants explore the part that cycle of flowering plants	flected from surfaces. From the Sun can be ere are ways to lows are formed when ource is blocked by a lowy that the sizes of the functions of ering plants: roots, d flowers. Lents of plants for life water, nutrients from and how they vary in which water is nts. flowers play in the life		

		<ul> <li>Gather, record, classify and present data in a variety of ways to help in answering questions.</li> <li>Ask relevant questions and use different types of scientific enquiries to answer them.</li> <li>Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</li> <li>Set up simple practical enquiries, comparative and fair tests.</li> <li>Use straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	pollination, seed formation and seed dispersal.
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Pupils working at great within their year grou	•					
Pupils working below expectations:	year group					
		Science Key S	Skills in Year 4			
Continuous Key Skills - Ask relevant scientific qui - Use observations and knowscientific questions Set up a simple enquiry to scientific question Set up a test to compare - Set up a fair test and exp - Make careful and accurate including the use of stand - Use equipment, including and data loggers to make - Gather, record, classify and different ways to answer selected Use diagrams, keys, bard using scientific language Use findings to report in the	owledge to answer to explore a two things. blain why it is fair. te observations, lard units. g thermometers measurements. nd present data in scientific questions. charts and tables;	Sound - Identify how sounds are made, associating some of them with something vibrating Recognise that 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 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.  Teeth and nutrition - 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.	States of matter - Compare and group mat according to whether they or gases Observe that some mate when they are heated or of measure or research the twhich this happens in deg Identify the part played by condensation in the wate associate the rate of evap temperature.  Electricity - Identify common appliant electricity.	y are solids, liquids erials change state cooled, and emperature at grees Celsius (°C) y evaporation and r cycle and coration with	in a variety of wa - Explore and use group, identify ar things in their loc - Recognise that a and that this can living things. The big build - Ask relevant que types of scientific - Set up simple pr comparative and - Make systemati and, where appro	classification keys to help and name a variety of living sal and wider environment. environments can change sometimes pose dangers to estions and use different c enquiries to answer them.

- electricity.
- Construct a simple series electrical circuit, identifying and naming its basic parts, 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 batterv.
- measurements using standard units, using a range of equipment, including thermometers and data loggers
- Gather, record, classify and present data in a variety of ways to help in answering questions.
- Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.

- presentation. - Draw conclusions and suggest improvements.
- Make a prediction with a reason. To identify differences, similarities and changes related to an enquiry.

including oral and written explanations,

- humans and their simple functions.
- Construct and interpret a variety of food chains, identifying producers, predators and

	- 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.	- Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
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2023   2024	Class:	Number of pupils in class:		n class:	Percentages	ARE:	GD:
Pupils working at greater depth within their year group expectations:							
Pupils working below year group expectations:							
			Science Key S	kills in Year 5			
Continuous Key Skills - Plan different types of control variables in an an and an and result diagrams and labels, club tables, scatter graphs, and set up fair test Report findings from a ways Explain a conclusion of a Explain causal relationary Relate the outcome of scientific knowledge in whether evidence suppargument or theory Read, spell and prono vocabulary accurately.	enquiry.  If precisely using a  Its using scientific assification keys, bar and line graphs. est results to make a further comparative enquiries in a range of from an enquiry. In ships in an inquiry. It on order to state ports or refutes an	Material world - Compare and group to materials on the basis of including their hardness transparency, conductive thermal) and response - Know that some materiality to form a solution to recover a substance - Use knowledge of solution to decide how mixtures including through filter evaporating Give reasons, based on comparative and fair the uses of everyday materiality wood and plastic Demonstrate that discondinges of state are reasonstrate in the sum of the sum	of their properties, is, solubility, ivity (electrical and to magnets. erials will dissolve in in, and describe how from a solution. ids, liquids and gases is might be separated, ring, sieving and in evidence from ests, for the particular rials, including metals, including metals, esolving, mixing and eversible changes. In solving, mixing and eversible changes. In any serials, and that this	Out of this world - Describe the moveme other planets relative to System Describe the moveme relative to the Earth Describe the Sun, Eart approximately spherica - Use the idea of the Ea explain day and night a movement of the Sun a Let's Get Moving - Explain that unsuppor towards the Earth beca gravity acting between falling object Identify the effects of resistance and friction, moving surfaces Recognise that some i including levers, pulleys smaller force to have a	othe Sun in the Solar nt of the Moon th and Moon as all bodies. In this rotation to and the apparent across the sky. In the Color of the Earth and the sair resistance, water that act between mechanisms, and gears, allow a	Circle of Life - Describe the difference a mammal, an amphibition - Describe the life procesome plants and anima Growing Up and Growi - Describe the changes old age.	an, an insect and a ess of reproduction in als.

including changes associated with burning and the action of acid on bicarbonate of soda.	



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Pupils working at greater depth within their year group expectations:							
Pupils working below year group expectations:							
			Science Key S	kills in Year 6			
Continuous Key Skills  - Plan different types of scientific enquiry.  - Control variables in an enquiry.  - Measure accurate and precisely using a range of equipment.  - Record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.  - Use the outcome of test results to make predictions and set up a further comparative fair test.  - Report findings from enquiries in a range of ways.  - Explain a conclusion from an enquiry.  - Explain causal relationships in an inquiry.  - Relate the outcome from an enquiry to scientific knowledge in order to state whether evidence supports or refutes an argument or theory.  - Read, spell and pronounce scientific vocabulary accurately.		they give out or reflect - Explain that we see th travels from light source	tem, and describe the blood vessels and to of diet, exercise, the way their bodies which nutrients and within animals, appears to travel in travels in straight bjects are seen because t light into the eye. Inings because light ces to our eyes or from and then to our eyes. It travels in straight adows have the same	Evolution and inheritar - Recognise that living over time and that foss information about livin inhabited the Earth mil - Recognise that living offspring of the same to offspring vary and are parents Identify how animals a adapted to suit their endifferent ways and that to evolution.  Classifying living things Describe how living thinto broad groups according to be a compared to be a compared to the compared to be a compared to the comp	things have changed sils provide g things that lions of years ago. things produce and, but normally not identical to their and plants are nvironment in tadaptation may lead sording to common tics and based on nees, including s and animals ifying plants and	Electricity  - Associate the brightn volume of a buzzer wit voltage of cells used in - Compare and give real how components functorightness of bulbs, the and the on / off positice - Use recognised symbola simple circuit in a dial Titanic - Plan different types of to answer questions, in and controlling variable - Take measurements, scientific equipment, vaccuracy and precision readings when approper - Record data and resulting complexity using scientables, classification ket graphs, bar and line grandless - Report and present filincluding conclusions,	th the number and in the circuit. Assons for variations in ection, including the see loudness of buzzers on of switches. Sols when representing agram.  If scientific enquiries including recognising es where necessary. Use a range of with increasing in, taking repeat riate.  Its of increasing intific diagrams and eys, tables, scatter aphs. Indings from enquiries,

			and explanations of and degree of trust in results, in oral and written form
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