LIDDED KEV CTACE	2. Science Curriculum 2014		Primarily Science
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Working Scientifically	Biology	Chemistry	Physics
	Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
Working scientifically During Years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs, • using test results to make predictions to set up further comparative and fair tests • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations results, explanations of and degree of trust in results, in oral and written forms such as displays and other presentations • identifying scientific evidence that has been used to support or	Animals, including humans describe the changes as humans develop to old age identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. describe the ways in which nutrients and water are transported within animals including humans Evolution and inheritance recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents recognise that living things have changed over time and that fossils provide the information about living things that inhabited the Earth millions of years ago identify how animals and plants are adapted to suit their environment in different ways and that adaption leads to evolution 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 microorganisms, plants and animals give reasons for classifying plants and animals based on specific characteristics describe the life process of reproduction in	Properties of everyday materials 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 Reversible change demonstrate that dissolving, mixing and changes of state are reversible changes. Changes that form new materials	Electricity associate the brightness of a lamp or the volume of a buzze 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 buzzers and the on/off position of switches use recognised symbols when representing a simple circuit in a diagram Forces explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effect 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 Light recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and there 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 then Earth and space describe the movement of the Earth, and other planets, relative to the Sun in the solar system describe the Sun, Earth and Moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night

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 soda.

some plants and animals

describe the differences in the life cycle of a

mammal, an amphibian, an insect and a bird

refute ideas or arguments.

- Earth, and other planets, vstem
- Moon relative to the Earth
- oon as approximately
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky