4 T1 & 2 – (WSS discrete teaching)

4 T3 & 4 –
*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 have lived are trapped within rock.
*Recognise that soils are made from rocks and organic matter.
*Compare and group materials together, according to whether they are solids, liquids or gases.
*Observe that some materials change state when they are heated or cooled.
*Identify the part played by evaporation and condensation in the water cycle and associate the

4 T5 & 6–
*Describe the simple functions of the basic parts of the digestive system in humans.
*Identify the different types of teeth and their functions.
*Recognise that living things can be grouped in a variety of ways.
*Explore and use classification keys to group, identify and name living things in local and wider environment.
*Recognise that environments can change and that this can sometimes pose dangers to living things.
*Construct and interpret a variety of food chains.

Year 4

Year 5

5 T5 & 6–
*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.

5 T3 & 4 –
*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.
*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.

5 T1 & 2–
*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.

Year 6

3 T1 & 2 –
*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 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.
*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 buzzers and the on/off position of switches.
*Use recognised symbols when representing a simple circuit in a diagram.

6 T3 & 4–
*Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
*Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
*Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

3 T5 & 6 –
*Describe the changes as humans develop to old age.
*Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences.
*Give reasons for classifying plants and animals based on specific characteristics.
*Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.