

Year 1

Plants

- Plants grow from seeds/bulbs and have different parts
- Plants need light and water to grow and survive
- Plants are important
- We can eat lots of plants
- Trees have 4 main parts

Animals including Humans

- There are many different animals with different characteristics.
 - Fish, amphibians, reptiles, birds and mammals.
- Some animals are carnivores, some herbivores and some are omnivores.
- The body parts associated with senses can be labelled on a body map.

Seasons

- There are 4 seasons
- There are lots of different types of weather: Rain, Sun, Cloud, Wind, Snow, etc
- Days are longer and hotter in the summer
- Days are shorter and colder in the winter

Materials

- There are many different materials that have different properties.
- Materials that have similar properties are grouped into metals, rocks, fabrics, wood, plastic and ceramics (including glass).
- The properties of a material determine whether they are suitable for a purpose.





SETTLE CE PRIMARY

Year 2

Plants	
•	Plants need light, water and warmth to grow and survive

Animals including Humans

- Animals and humans have babies that grown into adults.
- Animals and humans air, water, shelter and food to survive.
- Healthy diet and exercise is important.

Living Things & Their Habitats

- Some things are living, dead and some have never lived.
- Habitats differ based on a living thing needs.
- Some things are living, some were once living but now dead and some things never lived.
- Animals find their food in their habitats in different ways. .

Forces

- Pushing and pulling can make things move faster or slower.
- Things can move in different ways.
- Bigger pushes and pulls have bigger effects
- Objects sink and float

Materials

- Materials have different properties and suitability.
- Some materials can be changed by squashing, bending, twisting and stretching.





Year 3

Plants

- Plants are producers, they make their own food.
- Their leaves absorb sunlight and carbon dioxide
- Plants have roots, which provide support and draw water from the soil
- Flowering plants have specific adaptations which help it to carry out pollination, fertilisation and seed production
- Seed dispersal improves a plants chances of successful reproduction
- Seeds/bulbs require the right conditions to germinate and grow.

Animals including humans

- Different food groups provides different things.
- Humans and some other animals have skeletons and muscles for support, protection and movement.

Forces & Magnetism

- Surfaces affect the way things move on them.
- Pulleys make an object easier to life.
- Magnetic forces can act at a distance.
- Magnets attract and repel each other and some attract and repel different materials.
- Magnets have two poles.

Light & Sound

- Light is needed to see things.
- Light is reflected from surfaces.
- Light from the sun can be dangerous.
- Shadows are formed when the light from the sun is blocked by a solid object.
- Shadows change size and shape.

Materials (Rocks)

- There are different types of rock.
- There are different types of soil.
- What fossils are.
- Fossils tell us what has happened before.
- Fossils provide evidence.



Year 4

Animals including humans

- The functions of the digestive system.
- There are 5 main types of teeth that have different functions
- Food chains consist of producers, predators and prey.

Living things & their habitats

- Living things can be divided into groups based upon their characteristics
- Classification keys can be used to group and organise living things.
- Some environmental changes pose a danger to living things.

Electricity

- Common appliance around the home run on electricity.
- What a series circuit is and the components that make it.
- Troubleshoot circuits when a bulb is not lit.
- Make and use a simple switch.
- A conductor allows electricity to pass.
- An insulator does not pass electricity.
- Electrical safety.

Materials: Solids, liquids & gases

- Identify solids, liquids and gases.
- Materials change state.
- Evaporation and condensation play a part in the water cycle.





<u>Year 5</u>

Animals including humans

- Our bodies change as we grow older.
- Puberty is something we all go through, a process which prepares our bodies for being adults, and reproduction
- Hormones control these changes; which can be physical and/or emotional.
- Some organisms reproduce sexually where offspring inherit information from both parents.
- Some organisms reproduce asexually by making a copy of a single parent.

Forces

- Gravity is a force where unsupported objects fall to the floor
- Air resistance is a force
- Water resistance is a force
- Friction is a force
- Levers, pulleys and gears allow a smaller force to have a greater effect.

Earth & Space

- How planets, move in relation to the sun.
- How the moon and Earth move.
- The Earth and Moon are spherical bodies.
- Day and night occur because of the Earth's rotation.

Materials & Separation

- The temperature effects the rate of evaporation in the water cycle.
- Some materials dissolve and some can be recovered from a solution.
- Some mixtures can be separated.



<u>Year 6</u>

Animals including humans

- The main parts of the circulatory system and functions.
- A balanced diet is needed for a healthy body and mind.
- How nutrients and water are transported within animals and humans.

Evolution & Inheritance

- Life cycles have evolved to help organisms survive to adulthood.
- Over time the characteristics that are most suited to the environment become increasingly common.
- Fossils can be used in different ways to find out about the past.
- Similarities can be found in offspring of humans and animals.

Living things & their habitats

- Classify living things into broad groups according to observable characteristics and based on similarities and differences.
- Give reasons for classifying plants and animals based on specific characteristics.

Electricity

- Several things affect the brightness of a bulb, volume of a buzzer and speed of a motor.
- Symbols for components in a circuit.

Light & Sound

- Light travels in straight lines and light is reflected into our eyes.
- Light travels to our eyes. Light is reflected from objects to our eyes.
- Shadows are cast because light travels I straight lines.
- How some optical instruments work.

Materials

- All matter (including gas) has mass.
- Sometimes mixed substances react to make a new substance. These changes are usually irreversible.
- Heating can sometimes cause materials to change permanently. When this happens, a new substance is made. These changes are not reversible.
- Indicators that something new has been made are: The properties of the material are different (colour, state, texture, hardness, smell, temperature)

If it is not possible to get the material back easily it is likely that it is not there anymore and something new has been made (irreversible change)