Year	Biology
I	Plants –  1. Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees 2. Identify and describe the basic structure of a variety of common flowering plants, including trees  Animals including humans  1. Identify and name a variety of common animals including fish, amphibians, reptiles and mammals  2. Identify and name a variety of common animals that are carnivores, herbivores and omnivores  3. Describe and compare the structure of common animals (fish, amphibians, reptiles, birds and mammals, including pets)  4. Identify, name, draw and label the basic parts of the human body and say which body part is related to which sense  Seasonal changes  1. Observe changes across the four seasons  2. Observe and describe the weather associated with the seasons and how day length varies
2	Plants  1. Observe and describe how seed and bulbs grow into mature plants 2. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Animals including humans 1. Notice that animals, including humans, have offspring which grow into adults 2. Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) 3. Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Living things and their habitats 1. Identify and name a variety of plants and animals in their habitats, including micro-habitats 2. Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other 3. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different sources of food
3	Plants  1. Explore the requirements of plants for life and growth (air, light, water, nutrients from the soil and room to grow) and how they wary from plant to plant  2. Identify and describe the functions of different parts of flowing plants: roots, stem/trunk/leaves and flowers  3. Investigate the way water is transported within plants  4. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal

	Animals including humans  1. Identify that animals, including humans, need the right types and amount of nutrition and that they cannot make their own food; they get nutrition from what they eat  2. Identify that humans and some other animals have skeletons and muscles for support, protection and movement
4	Animals including humans  1. Describe the simple functions of the basic parts of the digestive system in humans  2. Identify the different types of teeth in humans and their simple functions  3. Construct and interpret a variety of food chains, identifying producers, predators and prey  Living things and their habitats  1. Recognise that living things can be grouped in a variety of ways  2. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment  3. Recognise that environments can change and that this can sometimes pose dangers to living things
5	Animals including humans  1. Describe the changes as humans develop to old age Living things and their habitats  1. Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird  2. Describe the life processes of reproduction in some plants and animals
6	Animals including humans  1. Identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood  2. Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function  3. Describe the ways in which nutrients and water are transported within animals, including humans  Living things and their habitats  1. 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  2. Give reasons for classifying plants and animals based on specific characteristics  Evolution and Inheritance  1. Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago  2. Recognise that living things produce offspring of the same kind, but normally offspring wary and are not identical to their parents  3. Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead

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to evolution	

Year	Chemistry
ı	Everyday Materials  1. Distinguish between an object and the material from which it is made 2. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock 3. Describe the simple physical properties of a variety of everyday materials 4. Compare and group together a variety of everyday materials in the basis of their simple physical properties
2	Uses of everyday Materials  1. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  2. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
3	Rocks (Link to Yrl & 2 Materials through identifying, comparing, grouping and investigating  1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties  2. Describe in simple terms how fossils are formed when things that have lived are trapped within rock  3. Recognise that soils are made from rocks and organic matter
4	Materials - States of Matter  1. Compare and group together, according to whether they are solids, liquids or gases  2. Observe that some materials change state when they are heated or cooled and measure or research the temperature at which this happens in degrees Celsius (°C)  3. Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature
5	Materials - Properties and Change  1. Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity and response to magnets  2. Give reasons based on evidence from comparative and fair tests for the particular uses of everyday materials, including metals, wood and plastic  3. Understand that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution  4. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating  5. Demonstrate that dissolving, mixing and changes of state are reversible changes  6. 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
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Year	Physics
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3	Light  1. Recognise that they need light in order to see things and that dark is the absence of light  2. Notice that light is reflected from surfaces  3. Recognise that light from the sun can be dangerous and that there are ways to protect their eyes  4. Recognise that shadows are formed when light from a light source is blacked by a solid object  5. Find patterns that determine the size of shadows  Forces and Magnets  1. Compare how things move on different surfaces  2. Compare and group together a variety of everyday materials on the basis of whether or not they are attracted to a magnet and identify some magnetic materials  3. Observe how magnets (attract and repel each other) attract some materials and not others  4. Notice that some forces need contact between two objects but magnetic forces can act at a distance  5. Describe magnets as having two poles  6. Observe how magnets attract and repel each other  7. Predict whether two magnets will attract or repel each other, depending an which poles are facing
4	I. Recognise that vibrations from sounds travel through a medium to the ear 2. Find patterns between the pitch of a sound and the features of the object that produced it 3. Find patterns between the volume of a sound and the strength of the vibrations that produced it 4. Recognise that sounds get fainter as the distance from the sound source increases  Electricity 1. Identify common appliances that run on electricity 2. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches

	<ul> <li>and buzzers</li> <li>3. 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</li> <li>4. Recognise that a switch opens and closes a series circuit and associate this with whether or not a lamp lights in a simple series circuit</li> <li>5. Recognise some common conductors and insulators and associate metals with being good conductors</li> </ul>
	Forces  1. Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and
5	the falling object  2. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces  3. Recognise that some mechanisms, including levers and pulleys and gears allow a smaller force to have a greater effect
	Earth and Space 1. Describe the Sun, Earth and Moon as approximately spherical bodies 2. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky 3. Describe the movement of the Earth and other planets, relative to the Sun in the solar system 4. Describe the movement of the Moon relative to the Earth
6	<ol> <li>Recognise that light appears to travel in straight lines</li> <li>Use the idea that light travels in straight lines to explain that objects are seen because they give out light or reflect into the eye</li> <li>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</li> <li>Use the idea that light travels in straight lines to explain why shadows have the same shape as objects that cast them Electricity</li> <li>Use recognised symbols when representing a simple circuit in a diagram</li> <li>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</li> <li>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</li> </ol>