

Assessment in Science – Group Records

Class 2 Year A	WT	GD
Biology		
<u>Living things and their habitats</u>		
I can identify things that are living, dead and never lived.		
I can describe how a specific habitat provides for the basic needs of things living there (plants and animals).		
I can identify and name plants and animals in a range of habitats.		
I can match living things to their habitat.		
I can describe how animals find their food.		
I can name some different sources of food for animals.		
I can explain a simple food chain.		
<u>Plants</u>		
I can describe how seeds and bulbs grow into plants.		
I can describe what plants need in order to grow and stay healthy (water, light & suitable temperature).		
I can name a variety of common wild and garden plants.		
I can name the petals, stem, leaf and root of a plant.		
I can name the roots, trunk, branches and leaves of a tree.		
Chemistry		
<u>Uses of everyday materials (1)</u>		
I can identify and name a range of materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard.		
I can suggest why a material might or might not be used for a specific job.		
I can explore how shapes can be changed by squashing, bending, twisting and stretching.		

Class 2 Year B	WT	GD
Biology		
<u>Animals, including humans</u>		
I can name a variety of animals including fish, amphibians, reptiles birds and mammals.		
I can classify and name animals by what they eat (carnivore, herbivore and omnivore).		
I can sort animals into categories (including fish, amphibians, reptiles, birds and mammals).		

I can sort living and non-living things.		
I can name the parts of the human body that I can see.		
I can link the correct part of the human body to each sense.		
I can explain the basic stages in a life cycle for animals, including humans.		
I can describe what animals and humans need to survive.		
I can describe why exercise, a balanced diet and good hygiene are important for humans.		
Chemistry		
<u>Everyday materials (2)</u>		
I can distinguish between an object and the material it is made from.		
I can explain the materials that an object is made from.		
I can name wood, plastic, glass, metal, water and rock.		
I can describe the properties of everyday materials.		
I can group objects based on the materials they are made from.		
Physics		
<u>Seasonal changes</u>		
I can observe and comment on changes in the seasons.		

Assessment in Science – Group Records

Class 3 Year A	WT	GD
Biology		
<u>Plants</u>		
I can describe the function of different parts of flowering plants and trees.		
I can explore and describe the needs of different plants for survival.		
I can explore and describe how water is transported within plants.		
I can describe the plant life cycle, especially the importance of flowers.		
Chemistry		
<u>States of matter</u>		
I can group materials based on their state of matter (solid, liquid, gas).		
I can describe how some materials can change state.		
I can explore how materials change state.		
I can measure the temperature at which materials change state.		
I can describe the water cycle.		

I can explain the part played by evaporation and condensation in the water cycle.		
Physics		
<u>Rocks</u>		
I can compare and group rocks based on their appearance and physical properties, giving a reason.		
I can describe how fossils are formed.		
I can describe how soil is made.		
I can describe and explain the difference between sedimentary and igneous rock.		
<u>Light</u>		
I can describe what dark is (the absence of light).		
I can explain that light is needed in order to see.		
I can explain that light is reflected from a surface.		
I can explain and demonstrate how a shadow is formed.		
I can explore shadow size and explain.		
I can explain the danger of direct sunlight and describe how to keep protected.		
<u>Electricity</u>		
I can identify and name appliances that require electricity to function.		
I can construct a series circuit.		
I can identify and name the components in a series circuit (including cells, wires, bulbs, switches and buzzers).		
I can draw a circuit diagram.		
I can predict and test whether a lamp will light within a circuit.		
I can describe the function of a switch in a circuit.		
I can describe the difference between a conductor and insulators; giving examples of each.		

Class 3 Year B	WT	GD
Biology		
<u>Living things and their habitats</u>		
I can group living things in different ways.		
I can use classification keys to group, identify and name living things.		
I can create classification keys to group, identify and name living things (for others to use).		
I can describe how changes to an environment could endanger living things.		

<u>Animals, including humans</u>		
I can identify and name the parts of the human digestive system.		
I can describe the functions of the organs in the human digestive system.		
I can identify and describe the different types of teeth in humans.		
I can describe the functions of different human teeth.		
I can use food chains to identify producers, predators and prey.		
I can construct food chains to identify producers, predators and prey.		
<u>Animals, including humans</u>		
I can explain the importance of a nutritious, balanced diet.		
I can explain how nutrients, water and oxygen are transported within animals and humans.		
I can describe and explain the skeletal system of a human.		
I can describe and explain the muscular system of a human.		
I can describe the purpose of the skeleton in humans and animals.		
Chemistry (Not taught in Year B)		
Physics		
<u>Sound</u>		
I can describe how sound is made.		
I can explain how sound travels from a source to our ears.		
I can explain the place of vibration in hearing.		
I can explore the correlation between pitch and the object producing a sound.		
I can explore the correlation between the volume of a sound and the strength of the vibrations that produced it.		
I can describe what happens to a sound as it travels away from its source.		
<u>Forces and magnets</u>		
I can explore and describe how objects move on different surfaces.		
I can explain how some forces require contact and some do not, giving examples.		
I can explore and explain how objects attract and repel in relation to objects and other magnets.		
I can predict whether objects will be magnetic and carry out an enquiry to test this out.		
I can describe how magnets work.		
I can predict whether magnets will attract or repel and give a reason.		

Class 4 Year A	WT	GD
Biology		
<u>Evolution and inheritance</u>		
I can describe how the earth and living things have changed over time.		
I can explain how fossils can be used to find out about the past.		
I can explain about reproduction and offspring (recognising that offspring normally vary and are not identical to their parents).		
I can explain how animals and plants are adapted to suit their environment.		
I can link adaptation over time to evolution.		
I can explain evolution.		
Chemistry		
<u>Properties and changes of materials</u>		
I can compare and group materials based on their properties (e.g. hardness, solubility, transparency, conductivity, [electrical & thermal], and response to magnets).		
I can describe how a material dissolves to form a solution; explaining the process of dissolving.		
I can describe and show how to recover a substance from a solution.		
I can describe how some materials can be separated.		
I can demonstrate how materials can be separated (e.g. through filtering, sieving and evaporating).		
I know and can demonstrate that some changes are reversible and some are not.		
I can explain how some changes result in the formation of a new material and that this is usually irreversible.		
I can discuss reversible and irreversible changes.		
I can give evidenced reasons why materials should be used for specific purposes.		
Physics		
<u>Light</u>		
I can explain how light travels.		
I can explain and demonstrate how we see objects.		
I can explain why shadows have the same shape as the object that casts them.		
I can explain how simple optical instruments work, e.g. periscope, telescope, binoculars, mirror, magnifying glass etc.		

<u>Electricity</u>		
I can explain how the number and voltage of cells in a circuit links to the brightness of a lamp or the volume of a buzzer.		
I can compare and give reasons for why components work and do not work in a circuit.		
I can draw circuit diagrams using the correct symbols.		

Class 4 Year B	WT	GD
Biology		
<u>Living things and their habitats</u>		
I can describe the life cycle of different living things, e.g. mammal, amphibian, insect bird.		
I can describe the differences between different life cycles.		
I can describe the process of reproduction in plants.		
I can describe the process of reproduction in animals.		
I can classify living things into broad groups according to observable characteristics and based on similarities & differences.		
I can describe how living things have been classified.		
I can give reasons for classifying plants and animals in a specific way.		
<u>Animals, including humans</u>		
I can identify and name the main parts of the human circulatory system.		
I can describe the function of the heart, blood vessels and blood.		
I can discuss the impact of diet, exercise, drugs and life style on health.		
I can describe the ways in which nutrients and water are transported in animals, including humans.		
I can create a timeline to indicate stages of growth in humans.		
Chemistry (Not taught in Year B)		
Physics		
<u>Earth and space</u>		
I can describe and explain the movement of the Earth and other planets relative to the Sun.		
I can describe and explain the movement of the Moon relative to the Earth.		
I can explain and demonstrate how night and day are created.		
I can describe the Sun, Earth and Moon (using the term spherical).		
<u>Forces</u>		

I can explain what gravity is and its impact on our lives.		
I can identify and explain the effect of air resistance.		
I can identify and explain the effect of water resistance.		
I can identify and explain the effect of friction.		
I can explain how levers, pulleys and gears allow a smaller force to have a greater effect.		