

Science: Progression

Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	Identify and describe simple observable features of plants, animals and materials.	- Identify, classify and describe plants, animals, materials and seasons based on simple observable features. - Record simple observations, e.g. in labelled diagrams and sentences.	- Begin to plan simple investigations (e.g. 'what do plants need to grow?'); observe and describe results. - Make simple predictions and create scientific outputs, e.g. a leaflet or poster.	- Plan and carry out investigations to test a variable, e.g. shadow size or material suitability. - Explain findings using scientific vocabulary and use evidence to answer questions; improve a design based on testing.	- Plan investigations considering variables (e.g. bridge design, sound experiments); interpret results. - Write scientific reports and explanations of findings; use evidence to support conclusions.	- Plan and carry out more systematic investigations, recording results accurately (e.g. moon craters, friction). - Research using varied sources; compare and order findings.	- Independently plan and design investigations (e.g. parallel circuits, dissections). - Record and present findings through detailed reports or presentations, drawing conclusions from evidence.
Biology	- Name common plants and know human body parts and senses. - Know common animals and observe seasonal changes.	- Name and describe plants (deciduous/evergreen trees, flowering plants); know human body parts and senses. - Know common animals and their diets (carnivore/herbivore/omnivore); observe seasonal changes.	- Know that living things live in habitats suited to their needs; observe how seeds/bulbs grow into plants. - Know the importance of exercise, diet and hygiene; know that animals have offspring which grow into adults; describe simple food chains.	- Know that humans/animals need nutrition and have skeletons and muscles for support. - Know the functions of flowering plants (roots, stem, leaves, flowers) and pollination/seed dispersal.	- Know the functions of parts of the digestive system and types of teeth; understand tooth decay. - Know that living things can be grouped in different ways; construct and interpret food chains.	- Know the changes as humans grow to old age; know the life cycles of a mammal, amphibian, insect and bird. - Describe reproduction in some animals and plants.	- Know how living things are classified into broad groups; know that cells are instructed by DNA. - Know the parts and functions of the human circulatory system; know that living things have changed over time (evolution).
Chemistry	Distinguish between an object and the material it is made from.	- Distinguish between an object and the material it is made from. - Identify and describe physical properties of everyday materials.	- Compare and identify the suitability of materials for particular uses. - Know how the shape of solid objects can be changed by squashing, bending, twisting and stretching.	- Compare and group rocks by appearance and physical properties. - Know that soils are made from rocks and organic matter; know how fossils form.	- Compare and group materials as solids, liquids or gases. - Know that materials change state when heated or cooled; understand evaporation/condensation in the water cycle.	- Compare and group materials by properties, e.g. hardness and solubility. - Know that some materials dissolve to form a solution; use knowledge of solids/liquids/gases to decide how mixtures are separated.	—
Physics	—	—	—	- Know that light is needed to see and that dark is the absence of light; know how shadows form. - Know that forces need contact, but magnetic forces can act at a distance.	- Know how to construct a simple series/parallel circuit and identify conductors and insulators. - Know that vibrations from sound travel through a medium to the ear; know patterns between pitch/volume and vibration.	- Know the Sun, Earth and Moon are approximately spherical and use Earth's rotation to explain day/night. - Know the difference between weight and mass; know that unsupported objects fall due to gravity.	Know that light travels in straight lines and use this to explain shadows and how we see objects.