Science long term plan- 2026/7 (Year A) and 2027/8 (Year B)

Objective needs to be covered in Year A and B to ensure the necessary prior knowledge.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6

EYFS	Year A Being increasingly independent in meeting their own care needs e.g. brushing teeth, using the toilet, washing and drying their hands thoroughly. Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. Year B Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments are different to the one in which they live. Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.	Year A (+ Teach across three terms) Understand the effect of changing seasons on the natural world around them. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. Year B Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see using a wide vocabulary. Talk about the differences between materials and changes they notice. Explore and talk about different forces they can feel. + seasons objectives linked to Autumn and Winter	Year A Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see using a wide vocabulary. Talk about the differences between materials and changes they notice. Explore and talk about different forces they can feel. Year B Being increasingly independent in meeting their own care needs e.g. brushing teeth, using the toilet, washing and drying their hands thoroughly. Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.	Year A and B Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant or an animal. + seasons objectives linked to Spring	Year A and B Understand the key features of the life cycle of a plant or an animal. Begin to understand the need to respect and care for the natural environment and all living things.	Year A Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments are different to the one in which they live. Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. + seasons objectives linked to Summer Year B (+ Teach across three terms) Understand the effect of changing seasons on the natural world around them. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

Year1/Year 2	Animals including humans (Year A) *DE Year 1- All about me (basic parts of human body, 5 senses)* OR Animals including humans (Year B) *DE Year 2- Growth (needs of animals for survival, diet, exercise and hygiene)*	Seasonal changes (Year A) *DE Year 1- Seasonal Changes* + Teach across three terms. OR Everyday materials (Year B) *DE Year 2- Uses of everyday materials (uses linked to properties)* To know how to distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	Everyday materials (Year A) *DE Year 1- Exploring everyday materials 1 and 2* To know how to distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock OR Living things and their habitats (Year B) *DE Year 2- Living things and their habitats (differences between living things, dead things and things that have never been alive, identify and name plants and animals in microhabitats, diet, food chains)*	Plants (Year A) *DE Year 1- Plants (seeds, basic parts of plants and trees, deciduous and evergreen, fruits and vegetables)* Identify and describe the basic structure of a variety of common flowering plants (seeds, roots etc), including trees. OR Animals including humans (Year B) *DE Year 2- Life Cycles (human lifecycles, offspring and parents, animal lifecycles)*	Animals including humans (Year A) *DE Year 1 unit- All about Animals (families, mammals, birds, amphibians and reptiles)* OR Plants (Year B) *DE Year 2- Plants (difference between seeds and bulbs, what plants need to grow, life cycles of plants, adaptation to environment)* Identify and describe the basic structure of a variety of common flowering plants (seeds, roots etc), including trees.	Assessment, recaps and addressing gaps/misconceptions.

Year 3/4	Light(Year A) *DE Year 3- Light (light sources and non light sources, the sun, reflective materials, shadows)* OR States of matter (Year B) *DE Year 4- States of Matter (explore the 3 states of matter, particles, melting points, freezing and boiling points, evaporation and condensation, the water cycle)*	Forces and magnets (Year A) *DE Year 3- Forces and magnets (contact and non-contact forces, different surfaces, different types of magnets, everyday magnetic materials, magnetic forces at a distance, everyday uses of magnets)* OR Electricity (Year B) *DE Year 4 Electricity (safety, components, complete and incomplete circuits, switches)*	Animals including humans (Year A) *DE Year 4- Animals including humans (digestive system, teeth, food chains, food webs)* See note on progression grid. OR Animals including humans (Year B) *DE Year 3- Animals including humans (food groups, nutrition, types of skeleton, human skeleton, muscles)*	Sound (Year A) *DE Year 4- Sound (identify how sounds are made, identify how vibrations travel to the ear, insulation, volume, pitch, sounds near and far)* Rocks (Year B) *DE Year 3- Rocks (formation and properties of igneous rock, formation and properties of sedimentary and metamorphic rock, weathering and suitability of rocks for different purposes, fossils, different types of soil)*	Plants (Year A) *DE Year 3- Plants (growth, functions of different parts of a flower and how they are used in photosynthesis, how water is transported, life cycle of flowering plants, pollination and seed dispersal)* Living things and their habitats (Year B) *DE Year 4- Living things and their habitats (habitats + classification + conservation)*	Assessment, recaps and addressing gaps/misconceptions.

Year 5/6	Living things and their habitats (Year A) *DE Year 5- Living things and their habitats (life processes of a plant, life cycles of mammals, compare life cycles of insects and amphibians)* Living things and their habitats (Year B) *DE Year 6- Living things and their habitats (classification, kingdoms of life, Linnaean system, characteristics of different types of microorganisms, asexual reproduction)*	Electricity (Year A) *DE Year 6- Electricity (parts of a circuit, voltage, correcting problems in a circuit, investigating output in a circuit, applying knowledge of conductors and insulators)* Earth and space (Year B) *DE Year 5- Earth and Space (solar system and its planets, heliocentric model, Earth's movement in space, the movement of the moon)*	Forces (Year A) *DE Year 5- Forces (gravity and the work of Isaac Newton, the connection between air resistance and parachutes, factors which affect an object's ability to resist water, the effects of friction on different surfaces, levers and pulleys, gears)* OR Evolution and Inheritance (Year B) *DE Year 6- Evolution and inheritance (variation in offspring, adaptation, learning from fossils, theory of evolution by natural selection, human evolution)*	Properties and changes of materials (Year A) *DE Year 5- Changes of materials(use of evaporation to recover the solute from a solution, reversible changes, chemical reactions, rusting, burning)* OR Properties and changes of materials (Year B) *DE Year 5- Properties of materials (properties of materials, thermal conductors and insulators, hardness of materials, materials which are soluble in water, separating mixtures)*	Animals including humans (Year A) *DE Year 5- Animals including humans key stages of a mammal life cycle, gestation periods of mammals, foetal development, changes in puberty, old age)* OR Animals including humans (Year B) *DE Year 6- Animals including humans (function of the heart and its role in the circulatory system, identify and compare blood vessels, blood, how the body transports water and nutrients, heart rate, drugs and alcohol)* *Also covered in PSHE*	DE Year 6- Looking after our environment (Year A) Non statutory unit Or Recap unit if needed. OR Light (Year B) *DE Year 6-Light (how light travels, reflection, shadows, light, phenomena)*

Science skills taught through the knowledge units.