

Science curriculum road map overview – Biology



Science curriculum road map overview – Physics

Y1. Seasonal Changes

Pupils will learn to observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies.

EYFS

Year 1



Understanding the World



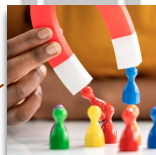
Y3. Forces and Magnets

Pupils will learn how objects move on different surfaces, explore contact and magnetic forces, investigate magnetic attraction and repulsion, identify magnetic materials, and understand the role of magnet poles in predicting interactions.

Y3. Light

Pupils will learn that light is needed to see, how it reflects and creates shadows, understand sun safety, and observe patterns in shadow formation and size changes.

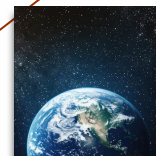
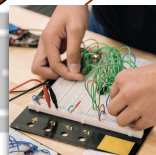
Year 4



Year 3

Y4. Electricity

Pupils will learn to identify common electrical appliances, build simple series circuits, understand how switches control circuits, and explore conductors and insulators, including metals as good conductors.



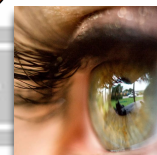
Year 5

Y4. Sound

Pupils will learn how sounds are produced by vibrations, how they travel through a medium, and explore patterns in pitch, volume, and how sound decreases with distance from the source.



Year 6



Y6. Electricity

Pupils will learn how the number and voltage of cells affect a lamp's brightness or a buzzer's volume, explore variations in component performance, and use standard symbols to represent simple electrical circuits in diagrams.

Y5. Earth and Space

Pupils will learn about the movements of Earth, the Moon, and other planets, understand their spherical shapes, and use Earth's rotation to explain day and night and the Sun's apparent motion.

Y5. Forces

Pupils will learn that gravity causes unsupported objects to fall, explore the effects of air and water resistance and friction, and understand how mechanisms like levers, pulleys, and gears can amplify force.

Y6. Light

Pupils will learn that light travels in straight lines, understand that we see objects when light is emitted or reflected into our eyes, and use this knowledge to explain how shadows are formed and why they match the shape of objects.

Year 7

Science curriculum road map overview – Chemistry

Y1. Everyday Materials

Pupils will learn to identify everyday materials, distinguish objects from the materials they are made from, describe simple physical properties, and group materials based on these properties.

EYFS



Understanding the World

Year 1



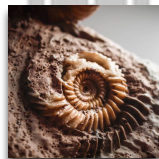
Year 2



Y2. Use of Everyday Materials

Pupils will learn to compare the suitability of everyday materials for different uses and explore how the shapes of solid objects can be changed by squashing, bending, twisting, and stretching.

Year 3



Y3. Rocks

Pupils will learn to compare and group rocks by their appearance and properties, understand how fossils are formed, and recognise that soils are made from rocks and organic matter.

Year 4



Y4. States of Matter

Pupils will learn to group materials as solids, liquids, or gases, observe changes of state with heating and cooling, and understand evaporation and condensation in the water cycle.



Year 5

Year 6

Y5. Properties and Changes of Materials

Pupils will compare and group materials by their properties, explore dissolving and separating mixtures, explain reversible and irreversible changes, and use evidence from fair tests to justify the uses of everyday materials.

Year 7

Science curriculum road map overview – Climate Change and Sustainability

