



# Oakwood Junior School Science Curriculum Biology, Chemistry and Physics Overview

|           | Biology   | Chemistry  | Physics  |
|-----------|---|--|--|
| Reception | Explore the natural world around them<br>Describe what they see, hear and feel whilst outside<br>Recognise some environments that are different from the one in which they live<br>Understand the effect of changing seasons on the natural world around them   |  |  |
| KSI       | Plants<br>Animals, including humans<br>Seasonal changes<br>Living things and their habitats   | Everyday materials<br>Uses of everyday materials   | Seasonal changes   |
| Year 3    | Plants<br>Animals, including humans   | Rocks  | Light<br>Forces and magnets  |
| Year 4    | Living things and their habitats<br>Animals, including human  | States of matter   | Sound<br>Electricity   |
| Year 5    | Living things and their habitats<br>Animals, including humans   | Properties and changes of materials  | Earth and space<br>Forces  |
| Year 6    | Living things and their habitats<br>Animals, including humans<br>Evolution and inheritance  |  | Light<br>Electricity   |
| KS3       | Structure and function of living organisms: cells and organisation, the skeletal and muscular systems, nutrition and digestion, gas exchange systems, reproduction, health<br>Material cycles and energy: photosynthesis, cellular respiration<br>Interactions and interdependencies: relationships in an ecosystem<br>Genetics and | The particulate nature of matter<br>Atoms, elements and compounds<br>Pure and impure substances<br>Chemical reactions<br>Energetics<br>The periodic table<br>Materials<br>Earth and atmosphere | Energy: calculation of fuel uses and costs in the domestic context, energy changes and transfers, changes in systems<br>Motion and forces: describing motion, forces, pressure in fluids, balanced forces, forces and motion<br>Waves: observed waves, sound waves, energy and waves, light waves<br>Electricity and electromagnetism: current electricity, static electricity, magnetism<br>Matter: physical changes, particle model, energy in matter<br>Space physics |