

## Whaley Thorns Primary School and Nursery

### Science Whole School Overview

|                   | Biology                                                                                                                                                                                                                                                                                    | Physics                                                                                                                                               | Chemistry                                                                                                                                                     |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Foundation</b> |                                                                                                                                                                                                                                                                                            |                                                                                                                                                       |                                                                                                                                                               |
| <b>Year One</b>   | <b>Animals, including humans</b> (naming animals and body parts) <b>Plants</b> (names & structure)                                                                                                                                                                                         | <b>Seasonal changes</b> (changes and weather)                                                                                                         | <b>Everyday materials</b> (names and properties of simple materials)                                                                                          |
| <b>Year Two</b>   | <b>Living things and their habitats</b> (suitable habitats/simple food chains) <b>Plants</b> (growing conditions for seeds and bulbs) <b>Animals, including humans</b> (health and growth)                                                                                                 |                                                                                                                                                       | <b>Uses of everyday materials</b> (Suitability and changing shapes of materials)                                                                              |
| <b>Year Three</b> | <b>Plants</b> (functions of parts and life cycles)<br><b>Animals, including humans</b> (skeletons)                                                                                                                                                                                         | <b>Light</b> (dark is the absence of light, size of shadows)<br><b>Forces and magnets</b> (friction – how things move on different surfaces, magnets) | <b>Rocks</b> (simple properties, fossils, soils)                                                                                                              |
| <b>Year Four</b>  | <b>Living things and their habitats</b> (grouping and simple classifying/changes to habitats can pose dangers)<br><b>Animals, including humans</b> (teeth, eating and digestion)                                                                                                           | <b>Sound</b> (fainter sounds further away, vibrations, pitch and volume)<br><b>Electricity</b> (simple circuit, switches, conductors and insulators)  | <b>States of matter</b> (solids, liquids, gases, heating & cooling, water cycle)                                                                              |
| <b>Year Five</b>  | <b>Living things and their habitats</b> (life cycles, reproduction)<br><b>Animals, including humans</b> (changes in humans as they grow)                                                                                                                                                   | <b>Forces</b> (gravity, friction, air resistance, levers, pulleys and gears)<br><b>Earth and Space</b> (other planets)                                | <b>Properties and changes of materials</b> (more properties including thermal and electrical conductivity, mixing and separating reversible and irreversible) |
| <b>Year Six</b>   | <b>Animals, including humans</b> (circulatory system, functions of heart, blood vessels and blood, health, water transport in animals) <b>Living things and their habitats</b> (classifying including microorganisms)<br><b>Evolution and inheritance</b> (more about fossils, adaptation) | <b>Light</b> (travels in straight lines, how we see things)<br><b>Electricity</b> (what affects bulb brightness, buzzer volume, voltage, symbols)     |                                                                                                                                                               |