



## Science Curriculum

### Years EYFS to 11

#### Curriculum Intent:

The science curriculum at Seva, teaches students about the incredible world that they live in. It encompasses all aspects of science: biology, chemistry and physics to give students in-depth awareness and understanding. The curriculum has been carefully planned to ensure students develop knowledge and understanding that is scaffolded to ensure that complex concepts are accessible and are explicitly developed. Scientific enquiry is threaded through the heart of the 3 sciences and students complete a wide variety of investigations throughout all Key Stages, to allow students to fully immerse themselves in their learning journey. Students have many opportunities to develop their moral, ethical, social and cultural understanding and discuss their personal interpretations and ideas, to develop themselves as well-rounded, scientifically aware citizens of a fast-changing world.

Year	Curriculum Journey
EYFS	Seasons and materials, Earth, light and shadow, minibeast, growth and life-cycles, floating and sinking
1	Everyday materials, seasonal changes, Animals including humans (1), Plants (1)
2	Animals including humans (2), Everyday materials, Living things and their habitats (1), Plants (2)
3	Plants (3), Rocks and soils, Forces and magnets, Light, Animals including humans (3)
4	Sound, Living things and their habitats (2), Animals including humans (4), Electricity (1), States of matter
5	Properties and changes of materials, Earth and Space, Forces, Living things and their habitats (3), Animals including humans (5)
6	Light, Electricity (2), Living things and their habitats (4), Evolution and inheritance, Animals including humans (6)
7	Mixtures and separation, Acids and alkalis, Energy, Cells, particles, Reproduction, Electricity, Muscles and bones, Forces, Sound, Atoms and elements, Ecosystems
8	Combustion, Plants, Metals and their uses, Food and nutrition, Rocks, the periodic table, Space, Respiration and breathing, Light, Unicellular organisms, Fluids, Energy transfers
9	Making materials, Forces and motion, Genetics and evolution, Plant growth, Reactivity, Forcefields and electromagnets, Working scientifically, Cell structure and cell division, Atoms, elements, compounds and mixtures, Energy
10	Organisation, Periodic table, Electricity, Infection and response, Structure and bonding and matter, Particle model, Bioenergetics, Quantitative chemistry, Forces, The nervous system,

	Chemical changes, Force and motion, The endocrine system, Car safety and momentum, DNA and reproduction, The rate and extent of chemical change, Properties of waves, Exam Questions practice.
11	Genetics, Organic chemistry, Electromagnetic waves, Evolution and classification, Chemical analysis, Chemistry of the atmosphere, Magnetism and electromagnetism, Space, Ecology, Using resources, Practical skills and exam technique