



## 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, minibeasts, 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	Introduction to secondary science, Cells, Changes of State, Energy, Reproduction, Elements, compounds and mixtures, Forces, Food and Digestion, Sound
8	Circulatory and Gas Exchange systems, Light, Combustion, Acids and Alkalis, Solutions and separation techniques, Electricity and Magnetism, Plants and Photosynthesis, Metals and Materials
9	Motion, Respiration, Earth Science, Inheritance, Extended investigations. Cells and Microscopy, Energy, Periodic Table and atom structure
10	Organisation, Infection and Response, Bioenergetics, Homeostasis and Response, Bonding, Structure and Properties of Matter, Quantitative Chemistry, Chemical Changes, Rate and Extent of Chemical Change Electricity, Particle Model of Matter, Atomic Structure, Forces
11	Ecology, Inheritance, Variation and Evolution

	Organic Chemistry, Chemical Analysis, Chemistry of the Atmosphere, Using Resources Waves, Magnetism and Electromagnetism, Space (Separate Science Only) Exam practice
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