# **Elm Court School**

### **Science Curriculum Overview**



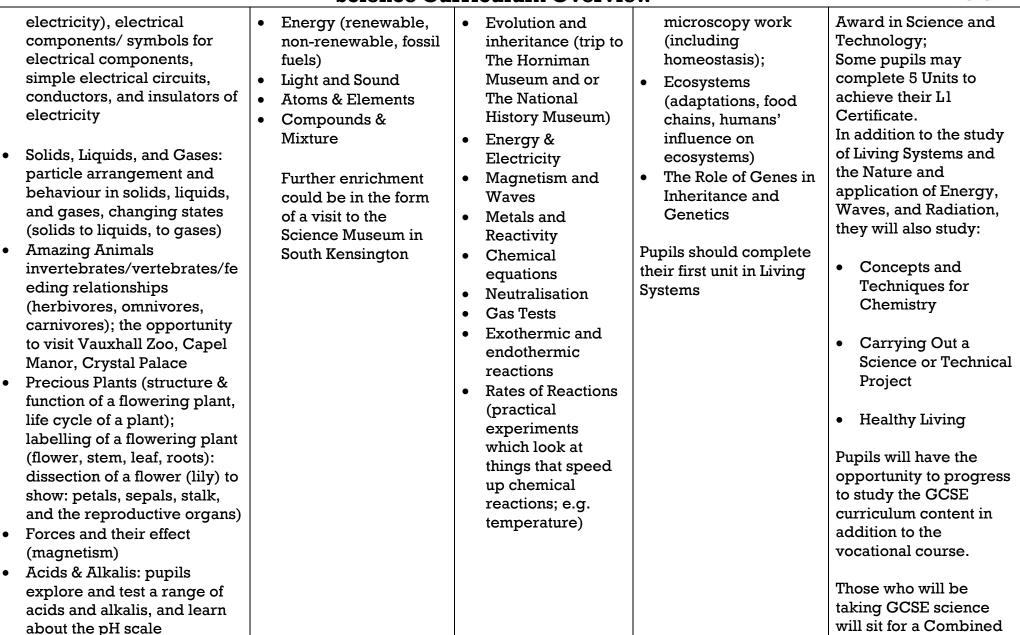
In Key Stage 3 pupils explore a knowledge and processes-rich curriculum filled with fascinating, practical, and relevant science that enables pupils to fall in love with our subject. We offer a broad range of studies closely aligned with the National Curriculum and adapted to meet the needs of our pupils. The content is divided into areas including scientific enquiry, life processes, materials and their properties, and physical properties. Pupils will develop scientific knowledge and skills through the learning of investigation skills; structure and function of living organisms; material cycles and energy; reproduction, genetics and evolution; elements and compounds; earth and the atmosphere, energy, electricity, and waves; motion and forces and matter.

In KS4 all pupils will follow a vocational course in science and the opportunity to combine it with GCSE science where appropriate. This qualification will be two years and during this period pupils could progress from L1 Award to L1 Certificate and GCSE.

Year 7:	Year 8:	Year 9:	Year 10:	Year 11:
In Year 7, pupils complete an initial baseline assessment and termly short topic tests, throughout the year to assess individual learning needs.	In Year 8, pupils study Science curriculum covering areas from scientific enquiry, life processes, materials and their properties, physical	In Year 9, pupils continue to study topics from all the scientific strands: scientific enquiry, life processes, materials,	In Year 10, pupils study Science units to enable them to complete a Ll Award or Ll Certificate by the end of Year 11. Once again, the four	In Year 11, pupils continue their Science curricular studies, covering areas from scientific enquiry, life processes, materials,
Multi-sensory approaches to learning are embedded within more traditional learning styles	properties Learning themes include:	and their properties, physical properties	Science Areas are explored: scientific enquiry, life processes,	and their properties, physical properties
and learning is cross-curricular, enabling pupils to make important connections to real life.	<ul> <li>Cells, tissues, organs, organs systems (including</li> </ul>	These topics and how they are taught will equip pupils to start their science	materials and their properties, physical properties	Pupils complete their Gateway Level 1 Award/Certificate in Science and Technology
Learning themes include:	<ul><li>reproduction)</li><li>Microbes (trip to</li></ul>	qualifications in Year 10	Pupils in Year 10 start to study Gateway Vocational Science.	<ul><li>Programs of Study:</li><li>The nature and</li></ul>
<ul> <li>Introduction to Science/safety in Science; Science equipment and experiments; baseline</li> </ul>	<ul> <li>centre of the cell)</li> <li>Disease</li> <li>Lifestyle and Health (see PSHE for cross- curricular links)</li> </ul>	<ul> <li>Plants, Animals, and their environment (photosynthesis,</li> </ul>	Programs of Study: The study of Living Systems	Application of Energy, Waves, and Radiation By the end of Year 11
<ul> <li>assessments</li> <li>Energy and electricity (revise safety when using</li> </ul>	<ul> <li>Food &amp; Digestion</li> </ul>	food chains, pollution)	• The structure and function of cells	pupils will achieve their Gateway Level 1

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Trilogy Science qualification
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#### How you can support your child in Science:

Encourage your child to watch Scientific documentaries and nature programmes. Don't forget all those Science video clips on YouTube!! There are amazing science documentaries on television and if you miss them, you could always catch up on BBC iPlayer! Another great thing to do is, work through different Bitesize Science Activities (internet) and Science Revision Guides & Work Books (homework books). British Science Week takes place in March of every year. There are many resources available to you and your child. Find out what is going on and get your child involved in this annual extravaganza! Finally, where possible, take your child to museums and exhibitions in order to deepen their understanding and build their passion for Science 'the wonderful world around them'!

Please keep in touch with the Science section should you feel your child is struggling or needs more challenge – let us know. Emails can be sent to: <a href="mailto:admin@elmcourt.lambeth.sch.uk">admin@elmcourt.lambeth.sch.uk</a>.