Walkwood
Church of England Middle School

Science 2026 - 27

	Wk	Year 7 — 6 lessons per fortnight: Topic	Learning Content	Assessment
Autumn	1	Becoming a Better Scientist	Pupils develop the core skills of working scientifically, including making predictions, planning fair tests, taking accurate measurements, and recording and presenting results. ***Keywords: prediction, variable, fair test, hypothesis, measurement, data, results, evaluation***	
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	3			Bunsen Burner Licence
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	7			Practical Skills Check
	8	Matter and Particles	Pupils explore the particle model of matter, states of matter and changes of state, and the properties and separation of mixtures. **Keywords: particle, solid, liquid, gas, state change, evaporation, condensation, mixture, filtration**	
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	11			Mid-Point Quiz
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	15			End of Topic Test
Spring	1	Cells to Organisms	Pupils learn about cells as the building blocks of life, how they're organised into tissues, organs, and organ systems, and are introduced to human reproduction. ***Keywords: cell, nucleus, tissue, organ, organ system, organism, reproduction, specialised cell***	
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	3			Mid-Point Quiz
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	6			EOTT
	7	Forces	Pupils investigate contact and non-contact forces, including gravity, friction, and magnetism, and how forces affect motion and speed. **Keywords: force, contact force, non-contact force, gravity, friction, magnetism, motion, speed**	
	8			Mid-Point Quiz
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	12			EOTT

Year 8 — *6 lessons per fortnight* ***Note:*** *The 2026–27 Year 8 curriculum has been adapted to reflect this cohort's previous learning. It is not reflective of the complete sequence that the current Year 7 cohort will follow in Year 8.*		
Topic	**Learning Content**	**Assessment**
Science by Numbers	Pupils build the core maths and measuring skills that underpin science, learning to take accurate measurements and present data in tables and graphs. ***Keywords: measurement, unit, data, average, table, graph, accuracy***	Practical Skills Check
Human Nutrition and Health	Building on Year 7 learning about human reproduction, pupils study gestation, foetal development, and contraception in an age-appropriate, factual way, alongside digestion, diet, and healthy lifestyles. ***Keywords: gestation, foetus, contraception, digestion, nutrient, balanced diet, lifestyle***	Mid-Point Quiz EOTT
Energy	Pupils learn about different forms of energy, energy transfers, and conservation of energy, including everyday examples of energy use and efficiency. **Keywords: energy, energy transfer, kinetic, potential, conservation, efficiency, fuel**	
Separation Techniques	Pupils learn how the properties of substances can be used to separate mixtures. Through practical work, they explore dissolving, filtration, evaporation, crystallisation, chromatography and distillation. T **Keywords: mixture, solution, soluble, insoluble, filtration, evaporation, chromatography, distillation.**	Mid-Point Quiz EOTT
Periodic Table	Pupils develop their understanding of elements by exploring how the periodic table is organised. They use chemical symbols and atomic numbers to locate elements, identify groups and periods, and distinguish metals from non-metals. **Key words: element, symbol, atomic number, group, period, metal, non-metal, reactivity.**	Mid-Point Quiz EOTT
Living Earth	Pupils study food webs, the carbon cycle, plant growth and reproduction, and how human activity affects wildlife and habitats. **Keywords: food web, carbon cycle, pollination, fertilisation, photosynthesis, habitat, biodiversity**	Mid-Point Quiz EOTT

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Summer	1	Atoms and Reactions	Pupils learn about atoms, elements, and the periodic table, and carry out experiments to explore how chemical reactions change and combine substances. **Keywords: atom, element, compound, periodic table, chemical reaction, reactant, product**			Adaptations and Inheritance	Pupils learn how characteristics are inherited and how Darwin's theory of evolution explains adaptation over time. **Keywords: inheritance, characteristic, variation, evolution, adaptation, natural selection**	
	2							Mid-Point quiz
	3			Mid-Point Quiz				
	4							
	5			EOTT				EOTT
	6	From Sound to Starlight	Pupils study how light and sound travel as waves, explore reflection and refraction, and learn about the solar system and Earth's place in space. **Keywords: wave, light, sound, reflection, refraction, solar system, orbit, planet**			Electricity and Magnetism	Pupils build and test electrical circuits, learn about current and voltage, and explore magnets and electromagnets, linking their learning to everyday devices. **Keywords: circuit, current, voltage, resistance, magnet, electromagnet, series, parallel**	
	7			Mid-Point Quiz				
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	10					Transition Project	Modelled on the CREST Awards, pupils design and carry out their own open-ended STEM investigation, choosing a question, planning their method, gathering evidence and presenting their findings. This develops the independence and enquiry skills needed for Year 9. **Key words: STEM investigation, independent project, planning, evidence, findings**	End of Year Assessment/ GL
	11			End of Topic Test				
	12							