

Science Long-Term Plan

Long-term planning (LTPs) - Planning how the key concepts, knowledge, skills identified in the Progression map will be delivered termly per year group

Ensuring that end points & NC/spec are covered

Identifying what assessments are planned and when

Ensuring whole school intent priorities to be planned for

This plan is based on a single teacher at Newport

A group which has a 2:1 teacher split has a slightly different map but identical content

Olney have a 3 unit rotation due to 5 science groups being on at the same time

(Year 8)						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit title:	Organisation	Electricity & magnetism Periodic table	Chemical reactions 2	Light & sound Respiration	Evolution	Photosynthesis Earth's resources
Unit length:	15 lessons	18 lessons 11 lessons	18 lessons	13 lessons 7 lessons	10 lessons	7 lessons 13 lessons
Key concepts:	Digestion Movement Breathing	Electricity magnetism and their connection How the periodic table evolved Dalton Lavoisier Mendeleev	Reactions of metals Manufacture of salts and the naming of compounds made	Properties of waves Properties of light & sound Colour How animals produce their energy	What causes organisms to change Charles Darwin What causes Extinction	How do plants make food Structure of the Earth and its finite resources
Knowledge/ Skills:	Practical skills Working scientifically	Graph plotting numeracy	Practical skills Working scientifically	Practical skills Working scientifically Graph plotting numeracy		Microscopes Practical skills Working scientifically
End points covered:	Digestion Movement Breathing	Currents Resistance Circuits and symbols Magnetism	Reactions and reactivity of metals Salts	Reflection Refraction Aerobic & anaerobic respiration/	Variation Chromosomes Natural selection Artificial selection Extinction	Photosynthesis Leaf structure Earthquakes/volcanos Rocks & rock cycle

		Electromagnets and uses		Fermentation and its importance		Extraction of metals from ores
NC/Spec coverage:						
Cross-curricular links:						
Assessments:	Organisation end of unit test	Electricity & magnetism end of unit test Periodic table end of unit test	Chemical reactions 2 end of unit test	Light & sound end of unit test Respiration end of unit test	End of Year exam	Photosynthesis end of unit test Earth's resources end of unit test
Other school intent priorities						
New experiences – broadening horizons						
Developing character – <i>Kind, Hard Working, Successful</i>						
Context specific need – diversity, inclusion; reading, literacy; mental health						
Curriculum Careers - Gatsby 4						