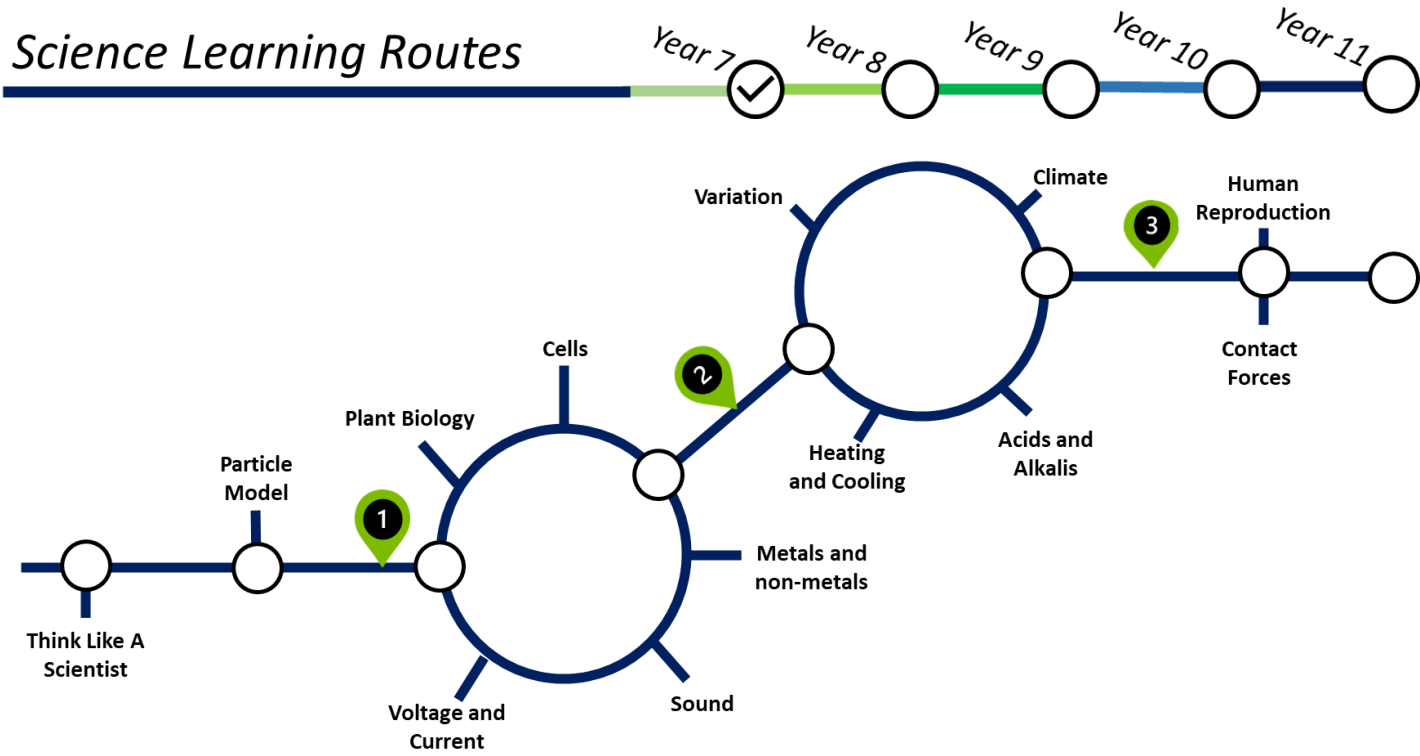
Science Learning Routes



Working Scientifically

Scientific Enquiry	Practical Skills & Investigations	Analysis & Evaluation	Measurement & Observation

KS3 Science Progress Descriptors

Acquiring	Developing	Securing	Extending
Use some common words (tier 1) that relate to scientific ideas.	Use some simple key words (tier 3) that link to scientific ideas.	Use relevant key words (tier 3) confidently when describing or explaining scientific ideas.	Use specialist key words (tier 3) to link together two or more different scientific ideas.
Demonstrate some knowledge and understanding of key scientific ideas.	Demonstrate mostly correct knowledge and understanding of key scientific ideas and can start to link these to familiar contexts.	Demonstrate accurate knowledge and understanding of key scientific ideas and apply these correctly to familiar contexts, using mostly accurate scientific terminology.	Demonstrate relevant and wide-ranging knowledge and understanding of many key scientific ideas and apply these correctly to both familiar and unfamiliar contexts using accurate scientific terminology.
Apply scientific past experience to provide simple explanations for key concepts.	Apply scientific knowledge and experiences to provide simple explanations for key concepts.	Apply scientific knowledge, understanding and experiences to provide detailed explanations for key concepts.	Apply scientific knowledge, understanding and experiences to provide detailed explanations for key concepts in both familiar and unfamiliar contexts
Use a model to explain a scientific idea / concept / process.	Apply scientific models to develop simple explanations of scientific concepts/ ideas / processes.	Apply scientific models to develop detailed explanations of scientific concepts/ ideas / processes.	Apply scientific models to develop explanations of scientific concepts / ideas / processes and evaluate the limitations of using models.
With support, can follow practical instructions.	Can follow practical instructions and start to ask questions about the scientific world.	Can plan scientific investigations to explore the answers to questions about the scientific world.	Can plan scientific investigations and evaluate the validity of experiments in questioning the scientific world.

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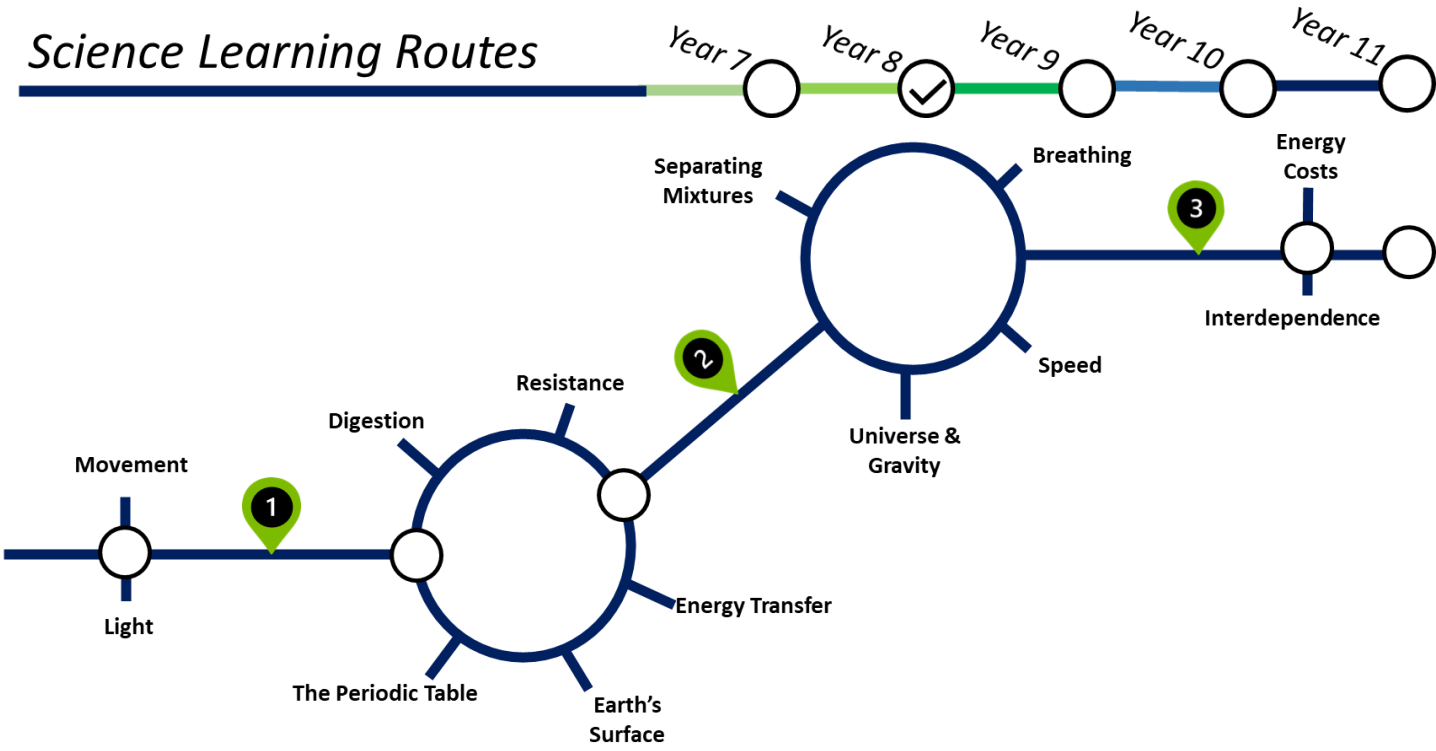

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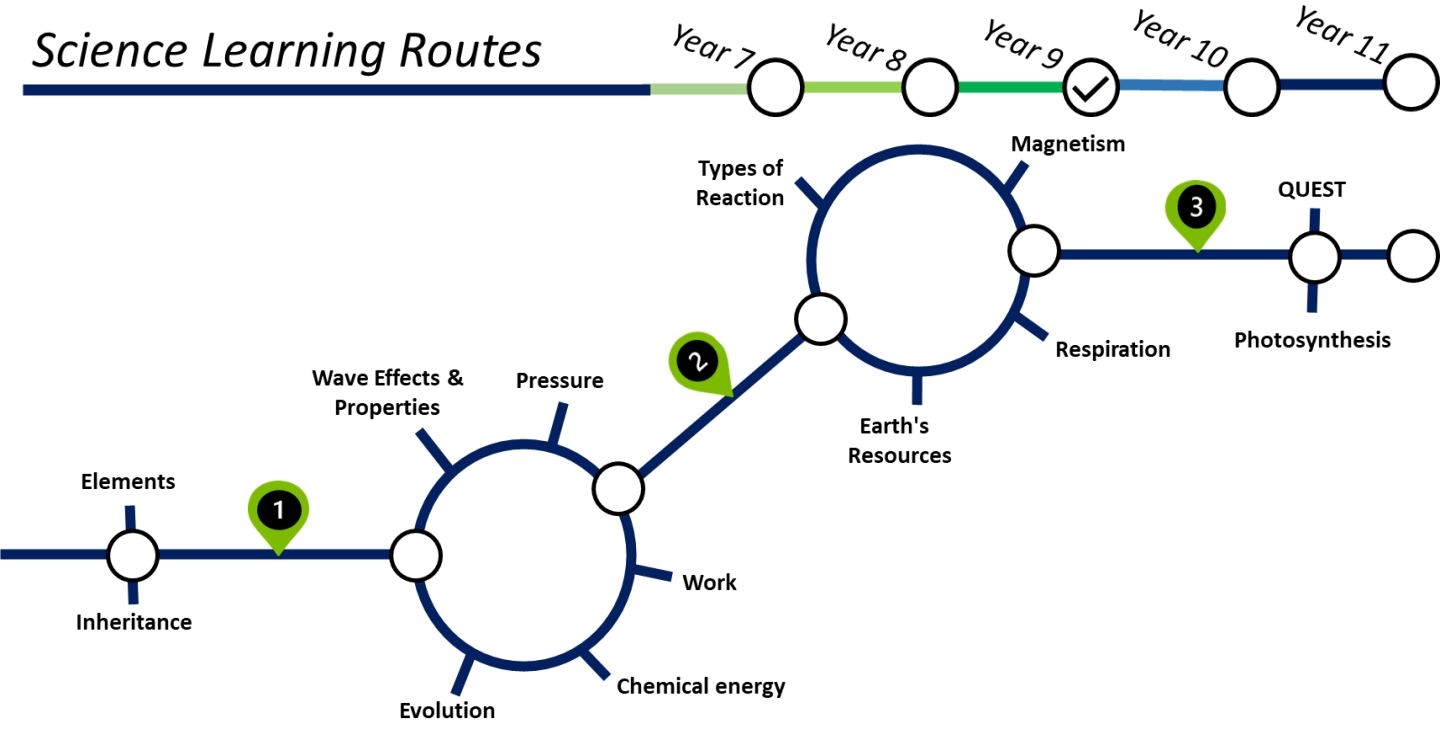

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