

LEARNING JOURNEY

Science Department

Year 9 ambition

Our ambition is to consolidate knowledge from earlier in Key Stage Three by spiralling the curriculum. This year revisits the principle topics from Year 7 and 8 and studies them in more depth, essentially bridging the gap between what students have studied in Key Stage Three, and what they will study in GCSE.

Term 3

Adaptations and Competition
Structure and Bonding
Interleaving Retrieval

Term 2

Cell Division
Cell Transport
Energy Transfer
By Heating
Energy Resources

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Term 3

Speed and Motion
Forensics
Retrieval
Handling Data
Food Science

Term 1

Biomimicry
Atomic Structure
Conservation and Dissipation of Energy
Cell Structure

Term 2

Adaptations and Ecology
Separation Techniques
Electricity and Magnetism
Metals and Acids

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Year 8 ambition

Our ambition is to develop numeracy in science as we begin to learn how to rearrange equations and convert significant figures. We also aim to build on previous knowledge by making explicit links with the foundational knowledge of year 7, whilst focussing on literacy within science too.

Term 1

The Periodic Table
Health and Disease
Earth and Atmosphere
Energy

Term 3

Acids and Alkalis
Sound
Handling Data
Retrieval

Year 7 ambition

Our ambition is to ascertain and build upon knowledge from Key Stage Two and develop foundational knowledge in preparation for success at GCSE.

Key knowledge: identifying equipment, foundational knowledge setting up for GCSE – Cells, Energy, Particles

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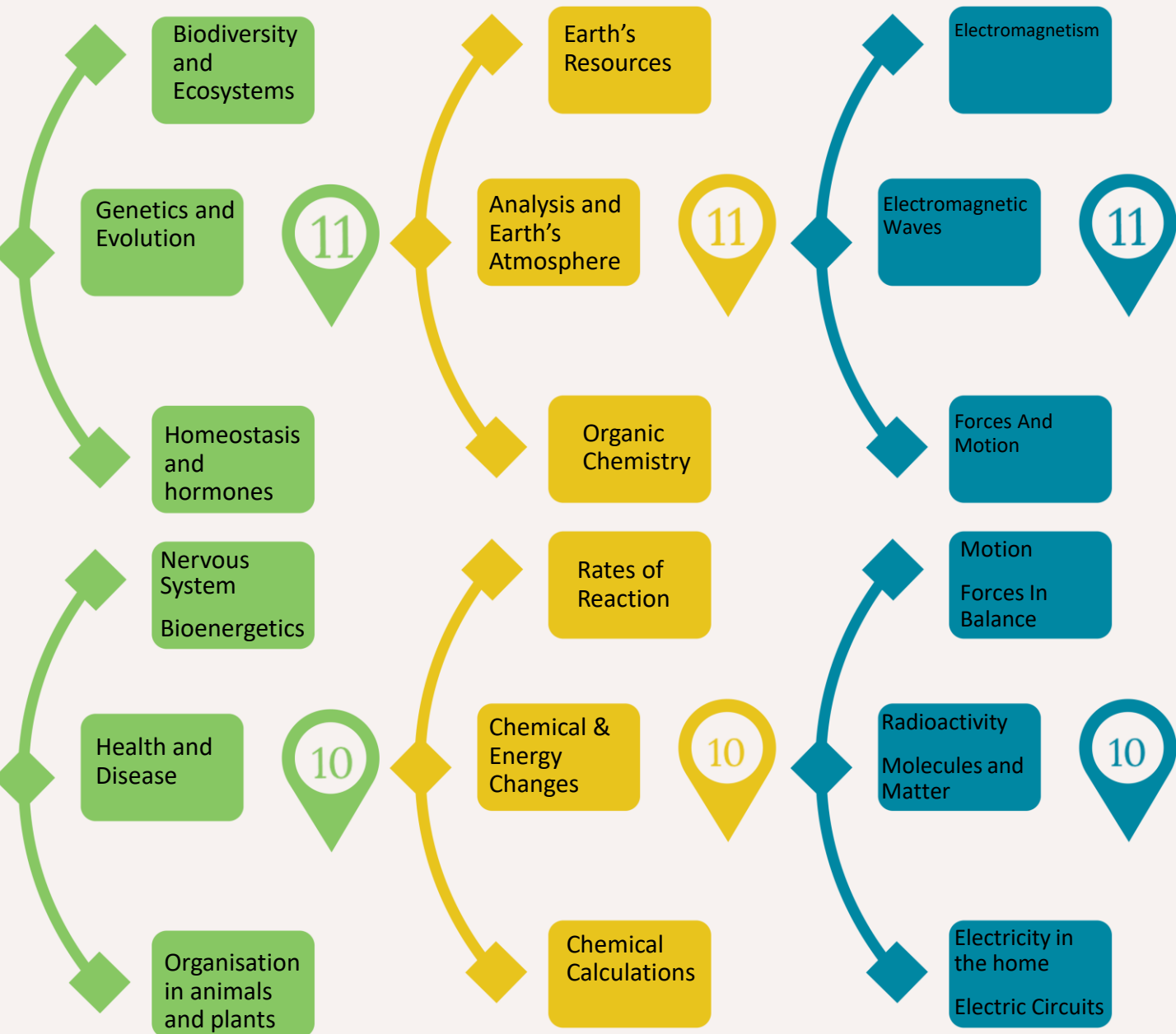
Term 2

Atoms, elements, compounds
Organisation
Chemical Reactions
Light
Reproduction

Term 1

Working Scientifically
Forces
Particle Model
Cells
Space

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Science KS4