

Year 9: Science

Term 1 topic:

- *New Technologies*
- *Genetics*

Expo 2020 'Challenge' Activity – 'Connecting Minds, Creating the future' Opportunity, Mobility, Sustainability

Opportunity is at the heart of development, ensuring that new horizons are opened to individuals and communities to help them meet their current and their future aspirations.
Mobility is the bridge to opportunity by connecting people, goods and ideas and providing easier access to markets, knowledge and innovation
Sustainability guides how we grow opportunity by doing more with less, while protecting and preserving our environment for future generations

Term 2 topic:

- *Nanoparticles and the Periodic Table*
- *Turning Points in Physics*

Cross Curricular Links/Projects

- *Mathematics (plotting graphs and handling data)*
- *Using technology to access resources, record and handle data and plot graphs*

Term 3 topic:

- *Medicines and Evolution*
- *Forensics*

Assessment Format:

End of topic tests will include the following types of questions: short answer, multiple choice, label diagrams, extended answer (6 marks question, 1 or 2 per test depending on tier) questions related to the scientific method, plotting and interpreting graphs.

Key Subject Specific Skills:

Practical competence, planning, obtaining, processing and interpreting data, concluding and evaluating.

Assessment Objective Overview

A01 Demonstrate knowledge and understanding of:

- scientific ideas • scientific techniques and procedures.

A02 Apply knowledge and understanding of:

- scientific ideas • scientific enquiry, techniques and procedures.

A03 Analyse information and ideas to:

- interpret and evaluate • make judgements and draw conclusions • develop and improve experimental procedures.

Links for Home Learning/ Extension Resources:

www.Kerboodle.com (our online text book)

www.bbc/bitesize (useful and age appropriate resource material)