

## Year 8: Science

### Term 1 topic:

- *Periodic Table and Reactions*
- *Energy, Electricity and Magnetism*

### 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:

- *Ecosystems*
- *Separation Techniques*

### Cross Curricular Links/Projects

- *Mathematics (plotting graphs and handling data)*
- *Using technology to access resources, record and handle data and plot graphs*
- *Geography (adaptation and inheritance)*
- *PE (health and lifestyle)*

### Term 3 topic:

- *Motion*
- *Health and Lifestyle*

### 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](http://www.Kerboodle.com) (our online text book)

[www.bbc/bitesize](http://www.bbc/bitesize) (useful and age appropriate resource material)