

Knowledge Mat: Science – Year 9

Key Knowledge for Year 9

Term 1

- Pressure and Moments.
- Inheritance and Selection.
- Reaction of Metals and Metal Compounds.

Term 2

- Speeding Up.
- Fit and Healthy.
- Patterns of Reactivity.

Term 3

Start GCSE

AQA Combined Science:
Trilogy (8464)

**All students study the
same core material.**

Wider Experiences / Try To Do...

- Iceland Trip.
- Radio Club.
- Chaplaincy Day Activities.

The **big** questions:

- **How** do your lifestyle choices affect your health?
- **What** reacts with what?
- **How** can you speed up a reaction?
- **How** do hydraulics work?
- **Why** use snowshoes?
- **Could** you move the Earth?

Vocabulary

Pressure, force, **area**, Newton, metre squared, N/m^2 , **Pascal**, blunt, air pressure, **atoms**, **molecules**, **compressed**, expand, **volume**, liquid, gas, **solid**, heat, **cool**, exert.

Speed, distance, **time**, metres, **seconds**, m/s , velocity, acceleration $m/s/s$ **or** m/s^2 , accelerate, **decelerate**.

Variation, inheritance, DNA, genes, **species**, environmental factors, **selective breeding**, cloning.

Acids, bases, neutralise, alkali, oxidise, reactive, **equations**, salts, **reactivity series**, **displacement**, electrolysis.