## Knowledge Mat: Science – Year 8

# **Key Knowledge for Year 8**

#### Term 1

- Heating and Cooling.
- Light.
- Atoms and Elements.
- Food and Digestion.

#### Term 2

- Magnetism and Electromagnetism.
- Respiration.
- Microbes and Disease.
- Compounds and Mixtures.

#### Term 3

- Ecological Relationships.
- Solutions.
- Rocks and Weathering.
- Sound and Hearing.

## Wider Experiences / Try To Do...

- Iceland Trip
- Salter's Science Competition
- Radio Club
- Chaplaincy Day Activities

### The **big** questions:

- What is energy?
- How are electricity and magnetism connected?
- How are chemicals combined?
- *How* can you stay healthy?
- *How* can chemicals be separated?
- What is the Earth made of?
- What can fossils tell us?
- What lives where, and why?

### Vocabulary

Temperature, Joules, degrees centigrade, conduction, conductors, thermometer, density, convection, radiation, absorb, reflect, emit, insulators, insulation, radiate, black, matt, silver, shiny, metals, bunsen burner, gauze.

ELEMENTS, periodic table, properties, melting and Boiling Point, compounds, molecules, chemical formulas, reactants and products, OXIDES.

Nutrition, balanced diet, carbohydrates, protein, vitamins, fibre, digestion, enzymes, arteries, veins, capillaries, blood cells, aerobic, anaerobic.