# Science Curriculum Map (Year 9)

[2022 - 2023]

#### Keeping healthy

Describe non communicable diseases, coronary heart disease and risk factors

What happens in a

reaction and reactions

involving atoms

Describe and draw the formation of ionic and covalent bonds.

Calculate Mr

#### June

End of year exam

Assessment of all learning since September

### Reactivity series and reacting acids

Describe how to make a neutral salt and write word and symbol equations.

#### Transport in plants

Explain how the structure of root hair cells, xylem cells and phloem cells are adapted to function.

## States of matter: changes of state

Describe internal energy of the 3 states of matter. Use the particle model to link energy to changes of state

#### April

#### Progress test 2

Assessment of all learning since September



# Investigating photosynthesis

Investigate different factors that can affect rate of photosynthesis

#### States of matter: Density

Use the particle model to investigate and calculate density

#### April

Progress test 2

Assessment of all learning since September

# The circulatory system and food for energy

**Describe** the blood and its pathway around the

Body. The digestive system

#### Monitoring reactions

Identify endothermic and exothermic reactions from data and display these using reaction profiles

#### Electricity

Investigate circuits, Calculate resistance and describe IV characteristics for different components



**Describe** how different microbes can cause different diseases.

The role of white blood cells.

Vaccines and immunisation.

#### January

Progress test 1

Assessment of all learning since September

# Energy calculations Calculate changes in stores of Potential energy, kinetic, work done

and power

# The atom and periodic table

The development the atomic model and periodic table. Describe and explain trends in groups

# Cells, microscopes and respiration

**Explain** how cell structures link to function. **Mitosis**, **Calculate** magnification.

## Electrical circuits and Magnetism

**Draw** series and parallel circuits

**Describe** how current and potential difference behave

**Describe** how magnets hehave



