

Science (Year 9)



Infection and Response

- Communicable diseases (Bacterial, Viral and Fungal)
- Body defence systems
- Vaccinations
- Antibiotics and painkillers
- Drug development

June
End of year exam
Assessment of all learning since September

Reactivity Series and Reacting Acids

Describe how to make neutral salt and **write word** and **symbol** equations

Electricity

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

Monitoring Reactions

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

Investigating Photosynthesis

Investigate different factors that can affect rate of photosynthesis

Transport in Plants

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



Energy Calculations

Calculate changes in stores of Potential energy, kinetic, work done and power



Respiratory, the circulatory System and food for energy

Describe the process of aerobic and anaerobic respiration
Describe the blood and its pathway around the Body. The digestive system



State 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

State of matter: Density

Use the particle model to **investigate** and **calculate** density

January
Progress test 1
Assessment of all learning since September

What happens in a reaction and reactions involving atoms

Describe and **draw** the formation of ionic and **covalent** bonds.
Calculate Mr

Microbes

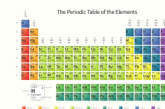
Describe how different microbes can cause different diseases. The role of white blood cells, **Vaccines** and **immunisation**

Electrical Circuits and Magnetism

Draw series and parallel circuits
Describe how current and potential difference behave
Describe how magnets behave



The Atom and Periodic Table



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



Cells & Microscopes

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