Science (Year 9)

Curriculum Map 2025-2026

Infection andResponse
- 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 howto makea neutral salt and **write word** and **symbol** equations

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

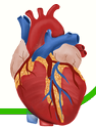
Monitoring Reactions
Identify endothermic and exothermic reactions from data and display these using reaction profiles

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

State of matter: Density
Usetheparticle modelto **investigate** and **calculate** density

State of matter: changes of state
Describeinternal energyof the 3 states of matter. Use the particle model to link energy to changes of state

Respiratory, the circulatory System and food for energy
Describe the processof aerobicand anaerobic respiration
Describe the blood and its pathway around the
Body. The digestive system



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

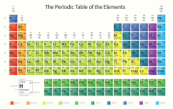
January
Progress test 1
Assessment of all learning since September

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

Cells & Microscopes
Explain howcell structures link to function. **Mitosis,**
Calculate magnification.