Science Learning Journey Year 7

Featherstone High School

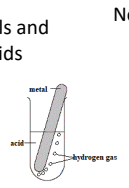
Understanding and Applying Scientific Skills

- Understanding variables
- Drawing graphs and analysing graphical data
- Writing methods
- Analysis of secondary data
- Assessing impact of scientific concepts
- Modelling scientific concepts
- Understanding relationships between science and society
- Drawing conclusions
- Identify, describe, explain, apply, link
- Applying maths to the scientific concepts
- Risk Assessment
- Describe patterns

YEAR 8

Acids and Alkalis

- Neutralisation in daily life
- Indicators, acidity and alkalinity
- Metals and acids
- Neutralisation





Space

- The Universe
- Detection - planets & alien life
- The Earth and Moon
- The solar system
- The night sky

Sound

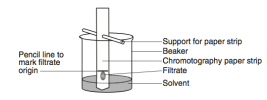
- Speed of sound
- Detecting sound
- Loudness and pitch
- Waves
- Sound and energy transfer

Muscles and Bones

- Muscles and Blood
- Drugs and sport
- Skeleton
- Muscles and Moving

Separating mixtures

- Solutions
- Filtration
- Chromatography
- Mixtures
- Solubility
- Evaporation and distillation



Atoms, elements and molecules

- Chemical formulae
- Atoms
- Compounds
- Elements
- Daltons Atomic Model

Reproduction in animals

- Growing up
- Becoming pregnant
- Reproductive organs
- Gestation and Birth

Forces and motion

- Motion graphs
- Speed
- Turning forces
- Pressure
- Balancing forces
- Drag forces & friction
- Representing forces
- Identifying forces
- Stretching & squashing
- Forces at a distance

YEAR 7

Cells, tissues, organs and systems

- Unicellular or multicellular
- Organ Systems
- Tissues
- Cells
- Microscopes
- Life processes

Particle model

- Gas pressure
- Boiling
- The particle model
- Diffusion
- Melting & Freezing
- States of matter



Introduction to Science

- Bunsen Burner
- variables
- Graphs
- Equipment
- Lab safety