Science Learning Journey Year 8

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 9

Genetics and Evolution



Natural Selection



Genes and extinction

Inherited variation

- DNA
- Environmental variation





Light



Reflection



The eye

Colours

- Light
- Refraction
- The camera







Electricity

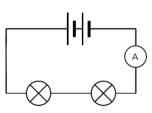


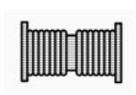
Charging up

Magnets and magnetic fields



- Circuits & current
- Series and parallel
- Resistance
- Electromagnetism





Breathing and Respiration



Getting Oxygen

Aerobic Respiration



Muscles and Breathing

- Comparing gas exchange
- Gas exchange system



Rocks







Sedimentary rock

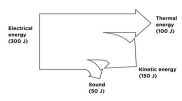
Igneous rock and metamorphic rock

- The rock cycle
- Weathering and Erosion
- The Earth and its element





Energy transfers



Conduction & Convection

Radiation

- Energy transfer - particles
- Energy adds up
- Energy & Power

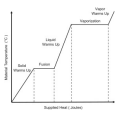


Energy resources



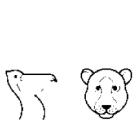
Energy

- Energy & food
- Energy & Temperature

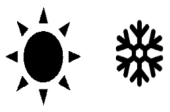


YEAR 8

Ecosystems



Variation



Effects of the Environment



Transfers in food chains

- Adaptation
- Effects on the Environment





Plants and Reproduction



Classification and biodiversity

Pollination

- Types of reproduction
- Fertilisation and dispersal



Combustion



Air pollution

Oxidation

- Global warming
- Fire safety
- Burning fuels



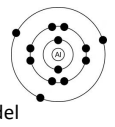


The Periodic table



Metals properties

Chemical properties



Daltons Atomic Model

- Metals and acids
- Metals and water
- Metals and non-metals
- Elements

