

Yr8 – Big Picture

Matter 2 - Elements

Atoms

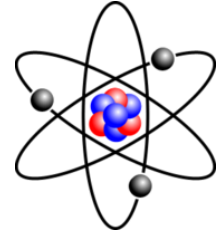
Compounds

Chemical formulae

Polymers

Periodic Table

Elements of group 1, 7, 0



Electromagnets -

Magnets & magnetic fields

Electromagnets

Using electromagnets

Forces 2 - Pressure in gases

Pressure in liquids

Stress in solids

Turning forces

Speed

Distance-time graphs

Gravity



Organisms 2 -

Gas exchange

Breathing

Drugs

Alcohol

Smoking

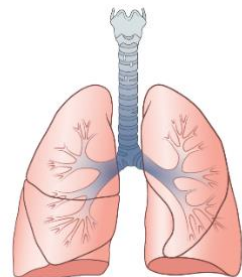
Nutrients

Food tests

Unhealthy diet

Digestive system

Bacteria & enzymes in digestion



Reactions 2 -

Chemical reactions of metals & non-metals

Metals & acids

Metals & oxygen

Metals & water

Metal displacement reactions

Atoms in reactions

Combustion

Thermal decomposition

Conservation of mass



Energy 2 - Work, energy & machines Energy & temperature

Energy transfer: particles

Energy transfer: radiation & insulation

Earth 2 - Global warming

The carbon cycle

Climate change

Extracting metals

Recycling



Genes 2 - Natural selection

Charles Darwin

Extinction

Inheritance

DNA

Genetics

Ecosystems 2 -

Aerobic respiration

Anaerobic respiration

Photosynthesis

Leaves

Investigating photosynthesis

Plant minerals

