

## Triple revision list

Please note you also need to revise all the topics on the combined Science revision lists (see the separate document on the school website)

### Biology

#### The Brain

- The Brain
- The eye & accommodation
- Thermoregulation
- Maintaining water and nitrogen balance in the body

### Chemistry

#### Cells

- Chemical cells and fuel cells
- Fuel cells

#### Bonding and the periodic table

- Transition metals
- alloys and useful materials
- ceramics, composites and polymers
- nanoparticles
- uses of nanoparticles

#### Chemical analysis

- Flame tests
- Tests for metal hydroxides
- Tests for carbonates, halides, sulphates
- Instrumental methods and flame emission spec
- Required practical

### Physics

#### Space

- Lifecycle of a star
- Circular motion
- Red shift

#### Forces

- Moments
- Levers and gears
- Momentum
- Fluid pressure
- Atmospheric pressure
- Gas pressure ( $PV = \text{constant}$ )

#### Waves

- Conduction and convection
- Thermal insulators
- Infrared and temperature
- Blackbody radiation
- Visible light
- EM waves - uses and dangers
- Reflection
- Convex Lenses
- Concave lenses
- The ear
- Ultrasound
- P and S waves