

Year 9 revision list

Please note there are 3 separate lists in this document

Biology

Cells

- Animal cells
- Plant cells
- Specialised cells
- Eukaryotes, Prokaryotes & Fungi
- Microscopes (including practical)
- Calculating magnification
- Levels of organisation
- Organ systems

Organs

- Blood
- Blood vessels
- The Heart
- Heart disease - Stents
- Pacemakers
- The Lungs
- Effects of exercise on breathing

Bioenergetics

- Photosynthesis
- Adaptation of leaves and stomata
- Reproduction in Plants
- Aerobic Respiration (including practical)
- Anaerobic respiration
- Metabolism
- Food groups
- Food tests

Chemistry

Intro to chemistry

- Atoms
- Atoms, elements and compounds
- Basic word equations
- Acids and alkalis
- Neutralisation and pH scale
- Salts (word equations only)
- Metal + non-metal oxides (acidity)

The Earth

- Earth's structure /composition
- Igneous rock
- Sedimentary rock & metamorphic
- Weathering/ erosion
- Rock cycle

Atomic structure

- Writing word equations
- Crystallisation and filtration
- Distillation
- Chromatography
- Atoms and their history
- Subatomic particles
- Relative atomic mass / isotopes
- Electronic structure

Physics

Energy types and systems

- Energy types and systems
- Kinetic Energy
- Gravitational Potential Energy (GPE)
- GPE to Kinetic Energy + practical
- Hooke's Law
- Elastic Potential Energy

Energy

- Specific Heat Capacity
- Work done
- Power
- Energy Transfers, Sankey diagrams, Efficiency
- Conduction, Convection and Radiation
- Thermal Conductivity

Waves

- Properties of light
- Reflection
- Refraction
- Dispersion and colour
- Seeing colours
- P&S Waves
- Properties of sound
- Speed of sound
- Ultrasound
- EM Waves

Electricity

- Electricity basics
- Conductors and insulators
- Energy bills
- Static electricity
- Magnet properties
- Magnetic fields
- Compasses
- Electromagnets