

Science Curriculum Map (Year 10)

AQA [2022 – 2023]



Paper 2 Assessment point (a)

Homeostasis & response

Explain how endocrine systems control blood sugar, temperature and ions

Describe the role of hormones in human reproduction

Describe and evaluate fertility treatments

Forces

Identify forces

Describe effects of forces

Graphs of motion

Newtons laws

Stopping distances

Acceleration

Extension

Rates of reaction

Describe factors that affect rates of reaction

Determine rates of reaction from investigation and data

Explain rates of reaction using particle model

Biology 1 Assessment point

Bioenergetics

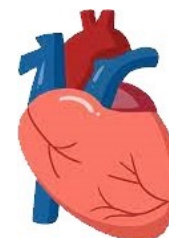
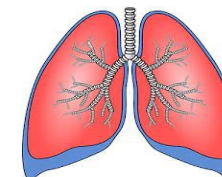
Photosynthesis

Investigating rate of photosynthesis

Aerobic and anaerobic respiration

Effect of exercise

Metabolism



Infection and response

Communicable diseases (Bacterial, Viral and Fungal)

Body defence systems

Vaccinations

Antibiotics and painkillers

Drug development

Cell biology

Cell structure and functions

Stem cells

Mitosis

Microscopy

Transport

Organisation

Digestive system

Circulatory system

Lifestyle

Plant systems

Exam Preparation

Required practical

Command words

Application questions

Physics 1 Assessment point

Particle model

Determine the specific heat capacity by investigation

Apply the particle model to changes of state and temperature

Radiation

Describe types of radioactive decay



Energy

Energy changes involving heating, work done by forces, work done when a current flows

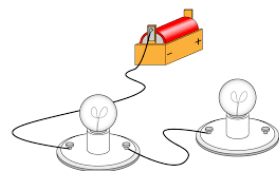
Electricity

Construct and draw circuits using symbols

Describe rules for current and potential difference in circuits

Apply $V=IR$ and rules to series and parallel circuits

Mains electricity and the national grid



Chemistry 1 Assessment point

Chemical changes

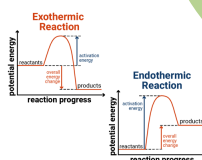
Extraction of metals

Reactions of metal compounds to make salts

Energy Changes

Endothermic and exothermic

Bond energy calculations



Structure and Bonding

Structure and properties of ionic, covalent and metallic bonds

Alloys and polymers

Quantitative Chemistry

Conservation of mass

Equations

Amounts of substance

The atom

Size and mass of the atom and subatomic particles

How the atomic model has developed
Isotopes & calculating A_r

Periodic table

Metals/ non metals

Comparing groups