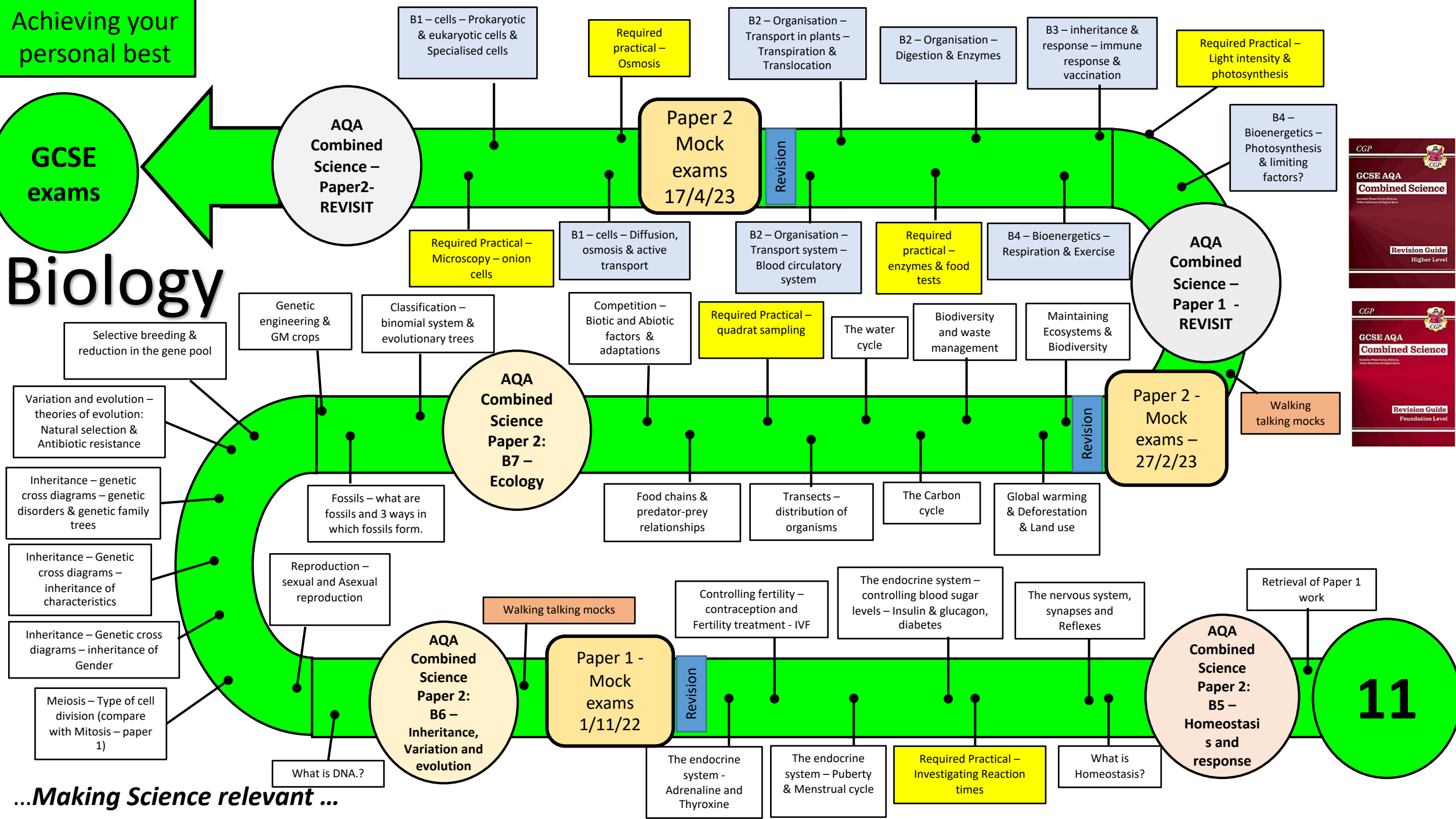


Achieving your personal best

GCSE exams

Biology

...Making Science relevant ...



AQA Combined Science - Paper 2 - REVISIT

Paper 2 Mock exams 17/4/23

AQA Combined Science - Paper 1 - REVISIT

Paper 2 - Mock exams - 27/2/23

AQA Combined Science Paper 2: B7 - Ecology

Paper 1 - Mock exams 1/11/22

AQA Combined Science Paper 2: B6 - Inheritance, Variation and evolution

AQA Combined Science Paper 2: B5 - Homeostasis and response

11

B1 - cells - Prokaryotic & eukaryotic cells & Specialised cells

Required practical - Osmosis

B2 - Organisation - Transport in plants - Transpiration & Translocation

B2 - Organisation - Digestion & Enzymes

B3 - inheritance & response - immune response & vaccination

Required Practical - Light intensity & photosynthesis

B4 - Bioenergetics - Photosynthesis & limiting factors?

Required Practical - Microscopy - onion cells

B1 - cells - Diffusion, osmosis & active transport

B2 - Organisation - Transport system - Blood circulatory system

Required practical - enzymes & food tests

B4 - Bioenergetics - Respiration & Exercise

Genetic engineering & GM crops

Classification - binomial system & evolutionary trees

Competition - Biotic and Abiotic factors & adaptations

Required Practical - quadrat sampling

The water cycle

Biodiversity and waste management

Maintaining Ecosystems & Biodiversity

Selective breeding & reduction in the gene pool

Variation and evolution - theories of evolution: Natural selection & Antibiotic resistance

Inheritance - genetic cross diagrams - genetic disorders & genetic family trees

Inheritance - Genetic cross diagrams - inheritance of characteristics

Inheritance - Genetic cross diagrams - inheritance of Gender

Meiosis - Type of cell division (compare with Mitosis - paper 1)

Fossils - what are fossils and 3 ways in which fossils form.

Reproduction - sexual and Asexual reproduction

Food chains & predator-prey relationships

Transects - distribution of organisms

The Carbon cycle

Global warming & Deforestation & Land use

Walking talking mocks

Controlling fertility - contraception and Fertility treatment - IVF

The endocrine system - controlling blood sugar levels - Insulin & glucagon, diabetes

The nervous system, synapses and Reflexes

Retrieval of Paper 1 work

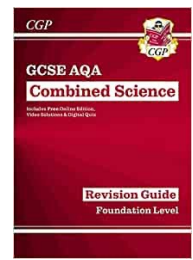
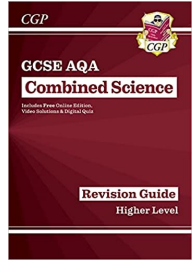
What is DNA.?

The endocrine system - Adrenaline and Thyroxine

The endocrine system - Puberty & Menstrual cycle

Required Practical - Investigating Reaction times

What is Homeostasis?



Achieving your personal best

GCSE exams

Chemistry

AQA Combined Science – Paper 2 - REVISIT

Papers 2 - Mock exams 17/4/23

AQA Combined Science – Paper 1 - REVISIT

Paper 2 - Mock exams 27/2/23

AQA Combined Science Paper 2: C10 – Using resources

AQA Combined Science Paper 2: C9 – Evolution of the atmosphere

AQA Combined Science Paper 2: C8 – Chemical analysis

AQA GCSE Chemistry Paper 2: C7 – Organic Chemistry

Paper 1 - Mock exams 1/11/22

AQA Combined Science Paper 2: C6 – Rate & extent of chemical change

11

- Required Practical – electrolysis
- Required practical – making a soluble salt
- C4 – displacement reactions & reactivity series & ionic equations
- C5 – Energy changes – endo & exothermic & bond energy calculations (higher only)
- C2 – Structure & bonding – Ionic bonding & Metallic bonding
- C3 – Calculations – RFM, Moles, & % mass
- C1 – Periodic table & alkali metals, halogens and noble gases – reactivity trends & properties

- B4 – electrolysis – molten and solutions of ionic compounds
- C4 – Acid reactions & neutralisation & balancing equations
- Required practical – energy changes
- C2 – Structure & bonding – Covalent bonding & Giant covalent structure
- C3 – Calculations – Concentration & limiting reactants

- Paper Chromatography & calculating Rf values – Practical
- Tests for gases
- Purity & formulations

- The evolution of the atmosphere
- Carbon footprints
- Finite & renewable resources
- Potable water & required practical

- Green house gases and global warming – Climate change
- Global warming & Air pollution
- Life cycle Assessments, reuse and recycling
- Waster water treatment

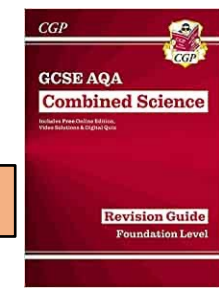
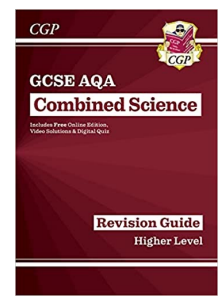
- Cracking & Alkenes
- Fractional distillation of crude oil & alkanes

- Equilibrium & Le Chatelier's principle
- Calculating reaction Rates from graphs – Maths skills
- Required Practical – disappearing cross experiment
- Rate of reaction - basics

- Reversible reactions
- Required Practical – releasing gas expt - marble chips & acid experiment
- Measuring the rate of reaction – Mg & Acid expt
- Factors affecting the rate of reaction

Walking talking mocks

Walking talking mocks



...Making Science relevant ...

Achieving your personal best

GCSE exams

AQA Combined Science – Paper2- REVISIT

Papers 2 - Mock exams 17/4/23

AQA Combined Science – Paper 1 - REVISIT

Physics

AQA Combined Science Paper 2: P6 – Waves

Paper 2 - Mock exams 27/2/23

AQA Combined Science Paper 2: P7 – Magnetism & electromagnetism

AQA Combined Science Paper 2: P5 - Forces

Paper 1 - Mock exams - 1/11/22

11

P3 - Internal energy & change of state & Specific latent heat (cooling & heating curves)

P3 – states of matter & particle theory

P4 – Half life - & calculations

P4 – Atomic structure & isotopes & radioactivity

Required Practical - Investigating resistance

P2 – Resistance & V=IR calculations

P1 – energy resources & their uses

P1 – Energy stores & energy calculations – Maths skills

Revision

Required Practical – Density

P4 - Radioactivity safety & contamination

P2 - Nuclear equations

P2 Electricity in the home & Power calculations – Maths skills

P2 – series and parallel circuits & calculations – Maths skills

Motor effect & electric motors

Types of waves & wave properties

Speed of sound practical

EM waves & their uses & dangers

Required practical – investigating IR radiation

Revision

Walking talking mocks

Permanent & induced magnets

Magnetic field of electric currents

Waves for communication & ionizing waves

Forces and elasticity

Momentum

Stopping distances and what factors affect stopping distances?

Required practical – Force and acceleration

What is Acceleration and how do you calculate acceleration – Maths skills

Distance-time graphs – draw and interpret

Velocity-time graphs – draw and interpret?

Walking talking mocks

Paper 1 Revision

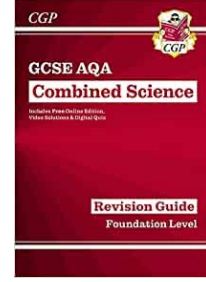
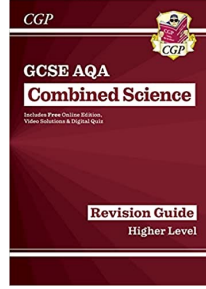
Resolving forces and parallelogram of forces

Scalar & vector quantities

Retrieval of year 10 work

Centre of mass & Practical on CoM of irregular shapes

Resultant forces & Newton's 1st law



...Making Science relevant ...