Year 11 Second Set of Mocks: Revision Schedule

In February you will have one mock exam in Biology, Chemistry and Physics, based **mainly** on the paper 2 topics for each subject (shown below). There will also be **some questions based on paper 1 content** (that you revised for the first set of mocks)

You will be given a **new knowledge organiser** which covers the topics below, the page numbers in the revision plan refer to the pages in the knowledge organiser.

Biology Paper 2

Homeostasis

- Nerves and Reflexes
- Control of Blood Glucose
- Menstrual Cycle

Inheritance, Variation and Evolution

- DNA and the Genome
- Reproduction and Meiosis
- Genetic Diseases
- Natural Selection and Genetic Engineering
- Fossils, Extinction and Classification

Ecology (Not on Feb mock)

Chemistry Paper 2

The rate and extent of chemical change

- Rate of reaction
- Collision theory
- Reversible reactions
- Equilibrium

Organic chemistry

- Hydrocarbons
- Fractional distillation

Chemical analysis

- Pure substances and mixtures
- Chromatography
- Testing for gases

Chemistry of the atmosphere

- History of the atmosphere
- Greenhouse gases
- Climate change
- Atmospheric pollutants

Using resources (Not on the Feb mock)

Physics Paper 2

Forces

- Scalar and Vector quantities
- Contact and Non-Contact Forces
- Gravity and Resultant Forces
- Work Done and Energy Transfer
- Forces and Elasticity

Forces and Motion

- Distance and Displacement
- Speed, Velocity, Distance-Time relationships, Acceleration
- Newtons Laws of Motion
- Stopping Distance, Reaction time and Factors that affect Reaction Time
- Higher Tier: Momentum

Waves

- Transverse and Longitudinal Waves
- Wave equation
- Electromagnetic Waves
- Ripple Tank Experiment

Magnetism

- Properties of magnets and magnetic fields

Electromagnetism (Not on the Feb mock)

The revision schedule is designed to help **combined science students** structure their revision. **Separate science** students can still follow it but they will need to also revise the **additional content for each subject**.

You should aim to do **at least an hour** of Biology, Chemistry **and** Physics a week. We suggest that you use the following approach:

1. Read the relevant pages of the knowledge organiser (or other resource you choose to use e.g. revision guide/ class book/ BBC bitesize)
2. Brain dump everything you can remember
3. Go back and add in green key facts that you did not remember
4. Complete the short Educake quiz (you can choose to do more questions/topics!)
5. You may also be set exam question homework's by your teacher

Remember:

- Any Revision is better than No Revision
- More Revision is better than Little Revision
- You do not have to makes notes on everything, do what you can in the time you have.
- Your teachers are here to help – if you are struggling with something go and see them!

Week commencing	Biology	Physics	Chemistry
16/12/24and ideally before this time as well	Review your feedback from the first set of mocks Which topics do you need to do more revision on? Identify 1-2 topics for each science subject and spend half an hour revising each one		
23/12/24 and 30/12/24 Christmas Holidays	Principles of homeostasis, structure and function of nervous system, reflex actions (page 1)	Scalars and Vectors, resultant forces, centre of Mass and Newtons Laws (page 1) higher tier: inertia and page 2 as well	Rates of Reaction (pages 1-2)
6/1/25	Endocrine (hormone) system and control of blood glucose Higher tier: Thyroxine and Adrenalin (Page 2)	Motion Graphs (page 3)	Rates of Reaction continued (pages 1-2)
13/1/25	Human Reproduction, fertility and the menstrual cycle (Page 3)	More on Forces and Motion (page 4)	Crude oil and fuels (page 3)
20/1/25	Sexual Reproduction, DNA and the genome, Key terms on Inheritance (page 4)	Hooke's Law and Stopping Distances (page 5)	Crude oil and fuels continued (page 3)
27/1/25	Punnet squares, genetic Diseases, Sex determination	Waves (Page 6)	Chemical Analysis (page 4)
3/2/25	Natural Selection and Evolution Including how genetic engineering is done for higher tier (page 5 and 8) (page 7 for higher tier also)	Wave Experiments (page 7)	The Earth's Atmosphere (page 5-6)
10/2/25	Mock Exam Period (2 weeks)		