

How to Revise Week

Question-a-day and 20 minute Revision tasks March & April 2025

Subject: Biology paper 1



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	NOTES:
24th March What is the purpose of the fine adjustment knob on a light microscope?	25th March What is a group of organs working together to perform a particular function called?	26th March What are pathogens?	27th March Photosynthesis is an exothermic reaction. True or false?	28th March How does the size of an organism affect its surface area to volume ratio?	29th March How do enzymes affect the rate of reaction?	30th March What type of pathogen causes rose black spot in plants and how is it spread?	
31st March Which three environmental variables can affect the rate of photosynthesis?	1st April Which cells in plants are specialized in absorbing water and minerals from the soil?	2nd April Which type of molecule is broken down into amino acids?	3rd April State two symptoms of measles and how is measles spread?	4th April How does a very high temperature affect the rate of photosynthesis?	5th April Name two gases that are exchanged in a leaf	6th April What type of food molecule can be identified in a sample using the Benedicts Test?	
7th April How is gonorrhoea spread between individuals?	8th April What is meant by the term “metabolism”?	9th April What type of membrane is needed for osmosis to happen?	10th April Name the structure in the lungs where gas exchange takes place.	11th April State one way that the spread of salmonella is controlled UK?	12th April What is the function of alveoli?	13th April Which side of the heart pumps deoxygenated blood to the lungs?	
How does phagocytosis help defend against pathogens?	Give the word equation for aerobic respiration	Is a plant cell a prokaryotic cell or a eukaryotic cell?	What is the function of white blood cells?	What does it mean when patients are given a placebo?			

Subject: Biology (triple or combined)

Exam Board: AQA

Mock exam Paper: Biology Paper 1

Topics to Revise:

- B1- Cell Biology
- B2- Organisation
- B3- Infection and response
- B4- Bioenergetics (photosynthesis, respiration and metabolism)

How to Revise Week

Question-a-day and 20 minute Revision tasks
March and April 2025

Subject: Chemistry paper 1



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	NOTES:
24th March What is the relative charge of a neutron?	25th March True or False? A positive ion is formed when an atom gains electrons.	26th March How do you calculate the percentage mass of an element in a compound?	27th March Give the names of the ions that are produced by the breakdown of water molecules?	28th March What is the definition of an exothermic reaction?	29th March How many carbon atoms are there in a molecule of Calcium Carbonate CaCO ₃	30th March Do ionic compounds have high or low melting points?	
31st March What is the definition of a mole? (The chemistry thing not an animal)	1st April What name is given to the negative electrode in electrolysis?	2nd April Are neutralization reactions exothermic or endothermic?	3rd April Why should you put a lid on a container in a paper chromatography experiment?	4th April How many electrons does each atom donate in a single covalent bond?	5th April What is meant by the term “conservation of mass”?	6th April What sort of reaction occurs when zinc is added to a solution of copper chloride?	
7th April Give an example of an everyday use for a) an endothermic and b) an exothermic reaction.	8th April In fractional distillation where is the hottest point of a fractionating column?	9th April How are the atoms in a polymer joined together?	10th April What is the definition of a limiting reactant?	11th April Give an example of a metal that can be mined in its elemental form.	12th April Is the change in bond energy for an exothermic reaction positive or negative?	13th April What was the plum pudding model of the atom?	
Give one property of diamond?	How do you find concentration of a solution in g/dm ³ ?	T or F? Water insoluble bases do not take part in neutralisation reactions with acid?	What is a metal?	What is the name of the process where a gas turns into a liquid?			

Subject: Biology (triple or combined)

Exam Board: AQA

**Mock exam Paper: Chemistry Paper
1**

Topic to Revise:

- Topic to Revise:

- C1- Atomic structure and the periodic table

- C2- Bonding structure and the properties of matter

- C3- X not quantitative chemistry topic 3 X

- C4- Chemical changes

- C5-Energy changes

How to Revise Week

Question-a-day and 20 minute Revision tasks
March and April 2025

Subject: Physics paper 1



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	NOTES:
24th March Name three different energy stores.	25th March True of False? The current in a single closed loop of wire is the same at any point.	26th March In which state of matter do particles move fastest?	27th March True or False? Isotopes of an element have same number of neutrons but different number of protons.	28th March When an object slows down which store is energy being transferred away from?	29th March What is the equation that links potential difference, current and resistance?	30th March In which state of matter is density generally highest and how is it explained by the particle model?	
31st March True or False? An alpha particle is the same as a Hydrogen Nucleus	1st April True or False? Energy can be created but not destroyed	2nd April How do you find the total resistance in a series circuit?	3rd April What is sublimation?	4th April What are gamma rays?	5th April What are the three main fossil fuels?	6th April True or False? The frequency of the UK mains electricity is 230Hz.	
7th April What is the specific latent heat of vaporization of a substance?	8th April What is a beta particle?	9th April Name a material that can be used to make biofuels?	10th April True or False? A diode has a very high resistance in one direction.	11th April Which two type of particle make up an atoms nucleus and for each type give the charge?	12th April What does it mean if a machine is powerful?	13th April True of False? Work is done when charges flow in a circuit.	
During which two changes of state does a liquid become a gas?	A nucleus emits a gamma ray. What happens to the mass and charge of the atom?	Should thermal insulation have a high or low thermal conductivity?	Which will have a higher total resistance? Two identical resistors connected in parallel or series?	What happens to the internal energy of a substance when it is condensing?			

Subject: Physics (triple or combined)

Exam Board: AQA

Mock exam Paper: Physics Paper 1

Topics to Revise:

- P1- Energy
- P2- Electricity
- P3- Particle model of matter
- P4- Atomic structure