

Y10 Science Exam Topic List

The Year 10 Science Exams will take place during the week of 9th May. The topics covered are from the GCSE course which started in January of Year 9. Use the primrose kitten revision workbook and revision links on its learning here <https://kjs.itslearning.com/Folder/processfolder.aspx?FolderID=773609>. Anything from the GCSE topics studied so far could come up, but there are key points to help you start your revision below:

Physics (45min test)

Topic	Key points to focus on	Bbc bitesize link
Energy	Energy transfers, e.g. gravitational potential energy and kinetic energy stores	Energy - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Electricity-circuits	Understanding circuit diagrams, recalling and using the equations.	Electrical circuit symbols - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Radioactivity	Types of radiation, uses and penetrating power	Radioactive decay - Radioactive decay - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Matter	Particles	Particle model of matter - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize

Chemistry (45 min test)

Topic	Key points to focus on	Bbc bitesize link
Quantitative chemistry	Calculating formula mass, reacting mass calculations and the idea of conservation of mass	Quantitative chemistry - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Electrolysis	How electrolysis works, products at the electrodes	Electrolysis of molten salts - Electrolysis - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Group 1 (alkali metals)	Group 1 reactions Balancing reactions	Group 1 - physical properties - Groups in the periodic table - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize and Balancing equations - Balanced equations - National 5 Chemistry Revision - BBC Bitesize
Acid reactions	Metal and acid reactions. Making a soluble salt Required Practical.	The reactivity series of metals - Reactions of metals - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize And Required practical - preparation of soluble salt - Acids, alkalis and salts - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Energy (triple only)	Exothermic and endothermic reactions (practical) reaction profile diagrams and bond energy calculations (for triple only)	Energy changes - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize

Biology (45min test)

Topic	Key points to focus on	Bbc bitesize link
Cells	Parts of a cell Specialised cells such as xylem/phloem/root hair/sperm/nerve Diffusion, osmosis and active transport	Cell biology - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Organisation – food groups	Food groups. Amylase Required Practical	Molecules of life - Animal organisation - digestion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Organisation - human	Heart disease and risk factors The lungs BMI/health	The circulatory system - Animal organisation - transport systems - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize
Organisation - plants	Plant cells and the leaf. Transpiration.	Plant organisation - Plant organisation - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize