

Science Exam Checklist (Double and Triple Award):

You have 6 exams: You need to do well on all 6;
(for detailed checklists of the contents of each topic use Foldr)

B1 Exam

- Cell Biology, (B1 in revision guide)
- Organisation, (B2 in revision guide)
- Infection and response, (B3 in revision guide)
- Bioenergetics (B4 in revision guide)

C1 Exam

- Atomic structure and the periodic table, (C1 in revision guide)
- Bonding, structure and properties of matter, (C2 in revision guide)
- Quantitative Chemistry, (C3 in revision guide)
- Chemical Changes, (C4 in revision guide)
- Energy Changes (C5 in revision guide)

P1 Exam

- Energy, (P1 in revision guide)
- Electricity, (P2 in revision guide)
- Particles, (P3 in revision guide)
- Radioactivity Atomic structure, (P4 in revision guide)

B2 Exam

- Homeostasis and response, (B5 in revision guide)
- Inheritance, variation and Evolution, (B6 in revision guide)
- Ecology (B7 in revision guide)

C2 Exam

- Rates of reaction, (C6 in revision guide)
- Organic Chemistry, (C7 in revision guide)
- Chemical Analysis, (C8 in revision guide)
- Chemistry of the Atmosphere, (C9 in revision guide)
- Using Resources (C10 in revision guide)

P2 Exam

- Forces and Motion, (P5 in revision guide)
- Waves, (P6 in revision guide)
- Magnetism and electromagnetism, (P7 in revision guide)
- Space (for Physics triple science only)

Required Practicals:

B1

- Microscopy
- Microbiology (Biology Triple only)
- Osmosis
- Enzymes
- Food tests
- Photosynthesis

C1

- Making Salts
- Neutralisation (Chemistry Triple only)
- Electrolysis
- Temperature changes

P1

- Specific Heat Capacity
- Thermal Insulation (Physics Triple Only)
- Resistance
- I-V Characteristics
- Density

B2

- Reaction time
- Germination (Biology Triple only)
- Field Investigations
- Decay (Biology triple only)

C2

- Rates of Reaction
- Chromatography
- Identifying Ions (Chemistry Triple only)
- Water Purification

P2

- Force and Extension
- Acceleration
- Waves
- Light (Physics Triple Only)
- Radiation and absorption

Science Exam Checklist (Double and Triple Award):

Where to start: Get the stuff you need!

- A **Revision Guide**: from the kiosk at break.
(£5.50 for double of 3 x £3.00 for triple)

Go to <https://www.rushey-tmet.uk/pupils/pupil-portal/> login to Foldr: My Files » Student Shared Area » Faculty of Science data » GCSE and look in each topic folder to get:

- **Knowledge organiser** for each topic
- **Word and meanings sheet** for each topic
- **Summary powerpoint** for each topic
- **Quiz** for each topic
- The **Required Practicals** Information
- **Past paper questions**
- **The Physics Equations** sheet

Access these websites:

<https://connect.collins.co.uk/school/portal.aspx> for the full text books with end of chapter questions. Log on with your date of birth and name

<https://www.freesciencelessons.co.uk/> for excellent summary videos of every aspect of GCSE

<https://www.cognitoresources.org/> for revision videos and past exam papers and markschemes

www.Twig-world.com Log on with your school email address and rusheymead

<https://www.educake.co.uk/> use the suggested extra quizzes to help revision

<http://www.focuselearning.co.uk/u/31896/igfvlrqButFkzrqvwjFasCdsFkyufoxou> Focuselearning has all the required practicals. Use this direct link to gain access.

GCSE - BBC Bitesize BBC bitesize is great!

What to bring to every exam (including Biology exams):

- A **scientific** calculator that you can use:
 - Make sure you can convert fractions to decimals
 - Make sure you can convert standard form
- A ruler with millimetres
- A pencil and a rubber for graphs and diagrams
- A protractor for measuring angles
- A black pen and a spare black pen

Working Scientifically skills needed for all 6 exams

- Know apparatus names and required practical techniques
- Identify risks and hazards and safety precautions
- Identify variables (independent / dependent /control)
- Define Bias and how to prevent it with peer review
- How theories develop and testing a hypothesis
- Evaluate the limitations of models
- Describe sampling and use the results in calculations
- The Limitations of science and ethical issues
- Identify errors and describe how to correct them
- Remember off by heart every single Unit and convert non-SI units
- Substitute numbers into an equation,
- Re-arrange (change the subject) equations,
- Calculate a mean, range and uncertainty
- Spot an anomaly
- Add scales and labels to graphs
- Plot a point on a graph
- Add a line of best fit (curve and straight line)
- describe a trend from a graph (curve and straight line) and describe a trend from a table
- read a point from a graph or a scale
- calculate a gradient and tangent
- calculate a % and % increase and % decrease,

Build a revision timetable

- Here is an example: (<https://www.rushey-tmet.uk/pupils/pupil-portal/> login to Foldr: My Files » Student Shared Area » Faculty of Science data » GCSE >> A. Revision Help)
- 1 hour chunks: 5 min sorting topic, 20 mins Read cover write, 10 min Practice exam question, 5 min mark, 10min relearn the bits you got wrong (read cover write), 10 min break.
- Cover **all** the topics: anything could come up in the exam.

Actually Revise! This means learning off by heart:

Read / cover / write → Test yourself →
Practice applying to exam questions: See the 'How to revise in Science' sheet for advice.

Start revising now and revise every week:

following your revision timetable until the exams

Look at Mr. Glover's and Mr. Bardolia's you-tube channel for revision help and advice:

[MrAGlover-RMA - YouTube](#)

[Study skills RMA - YouTube](#)