

Longbenton Science Department Independent Learning - The useful websites

With Science being a multi-subject and multi-disciplinary course there are multiple sources you can use to support you in your preparation for GCSE. There are multiple science courses on offer and we offer a variety here at Longbenton. Before we go into the revision I think it is important to identify what material your child needs.

AQA Individual Sciences (Triple sciences) Biology, Chemistry and Physics - Higher Tier. Students will sit 2 examinations for each science (6 in total) and will obtain three separate science grades from 4-9. When looking through the revision sites below watch out for key phrases like 'Individual Sciences' or 'Triple Sciences', if your child does not do this course, then they do not need this information.

AQA Trilogy Combined Sciences - Higher and Foundation Tier. Students will still sit 2 examinations for each science (6 in total) however rather than receiving an individual grade for each science, the total score is amalgamated together and is translated into a double grade such as 4-4, 4-3, 3-3 etc.

Students who complete the higher tier course will be graded from 4-3 to 9-9.

Students who complete the foundation course will be graded from 1-1 to 5-5.

<https://www.youtube.com/freesciencelessons> - Affectionately known by our students as 'oh that guy.' The creator of this youtube channel is a teacher and an examiner. He has compiled lessons on every aspect of the Science curriculum.

Science department opinion: A crucial place to go as a part of your revision.

<https://www.physicsandmathstutor.com/> - This website has some excellent revision materials and has access to all but the most recent examination papers. Students can filter their learning by science subject, paper number or even topic. An essential tool for not only revision but testing their knowledge using past-paper style questions.

Science department help: Be sure that when you click on the chosen science, that you then select for the AQA exam board.

INSPIRE Sessions - Every Monday evening from 3.15 - 4.00pm the Science department welcomes your child to DS11 or DS12. Here students get support on making their revision materials, access to past-paper questions in a forum where they are encouraged to seek out help from the various specialisms.

Tuesday Morning Revision Sessions - Every Tuesday from 8.00am - 8.30am a member of the science department runs a small revision session on a topic. This can be a tutorial style or a chance to practise exam-style questions.

<https://cognitoedu.org/home> - Another set of videos on GCSE content. Does not link to any particular specification but, does have creative and interesting ways of portraying complicated topics in Science. **An alternative to but should be used in conjunction with freescience lessons.**

GCSE bitesize: Below are comprehensive links to the content taught to your child, when in their academic life it was taught to them.

To study GCSE **Biology** topics follow each of the links below

To study GCSE **Chemistry** topics follow each of the links below

To study GCSE **Physics** topics follow each of the links below

Year 9 Term 2

Atoms and the periodic table - [link](#)

Cells and microscopy - [link](#)

Energy - [link](#)

Chemical analysis - [link](#)

Year 10 Term 1

Organisation - [link](#)

Structure and bonding - [link](#)

Electricity - [link](#)

Year 10 Term 2

Infection and response - [link](#)

Bioenergetics and organisation - [link](#)

Quantitative chemistry - [link](#)

Chemical changes - [link](#)

Particle model of matter - [link](#)

Atomic structure - [link](#)

Year 10 Term 3

Ecology - [link](#)

Energy changes - [link](#)

Waves - [link](#)

Magnets and electromagnetism - [link](#)

Year 11 Term 1

Homeostasis and response - [link](#)

Rates of reaction - [link](#)

Organic chemistry - [link](#)

Forces - [link](#)

Year 11 Term 2

Inheritance, variation and evolution - [link](#)

Chemistry of the atmosphere - [link](#)

Using resource - [link](#)