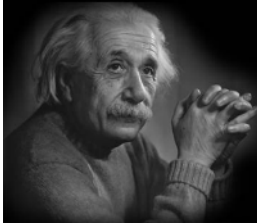




GCSE Sciences

The whole of science is
nothing more than a
refinement of everyday
thinking.



Albert Einstein

German Theoretical-Physicist
(1879-1955)

QuoteHD.com



Key information:

The exam board for sciences at the Castle School continues to be Edexcel.

All examinations are terminal- taken at the end of Year 11.

No Controlled Assessment Tasks- 100% examination assessed.

Foundation tier will cover grades 1–5. Higher tier will cover grades 4–9.





What are the routes?

There will be two routes in GCSE sciences that students can take:

1 GCSE (9-1) Combined Sciences (double award)

- The majority of pupils will follow this route.

2: GCSE (9-1) Separate Sciences

- GCSE (9-1) Biology
- GCSE (9-1) Chemistry
- GCSE (9-1) Physics

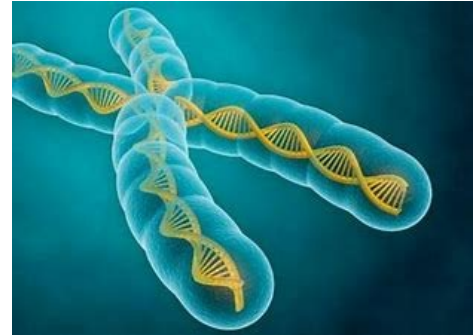
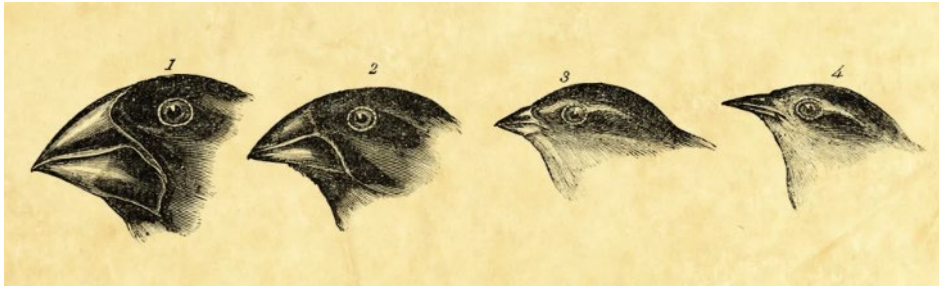
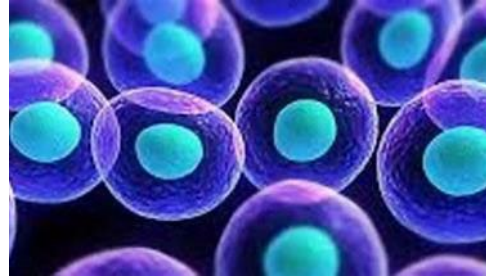
Note: There will be no single GCSE Science option.





Biology topics you will study in year 10:

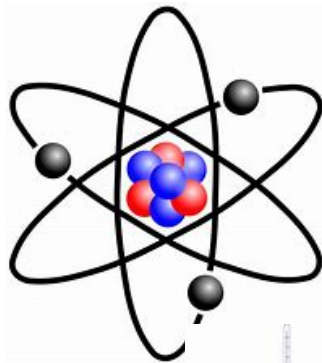
- Key concepts in Biology
- Cells and control
- Genetics
- Natural selection and genetic modification
- Health and disease





Chemistry topics you will study in year 10:

- States of matter
- Atomic structure
- The periodic table
- Bonding
- Acids and alkalis
- Calculations involving masses





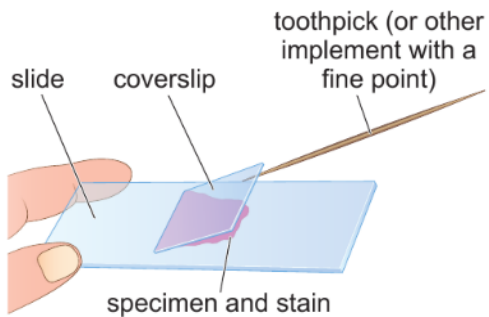
Physics topics you will cover in year 10:

- Motion
- Forces
- Energy
- Waves
- Light and the electromagnetic spectrum

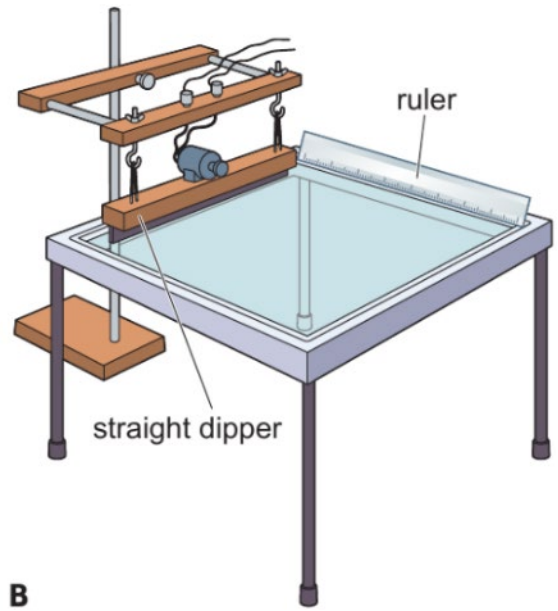
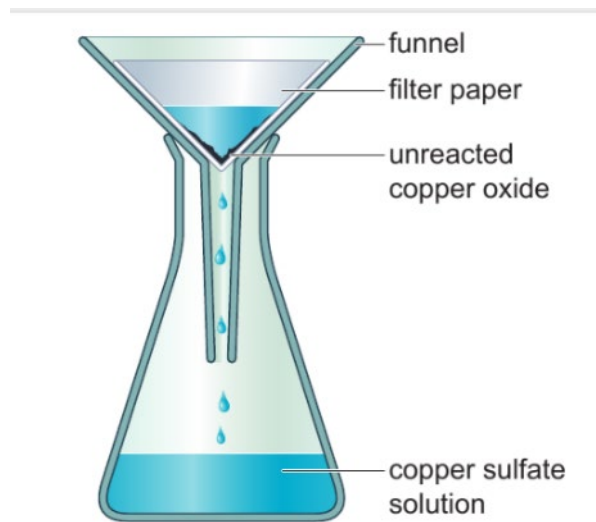




You will take part in a range of important **core practical tasks** in Biology, Chemistry and Physics



B Lowering a coverslip slowly and carefully means a slide is less likely to contain air bubbles.





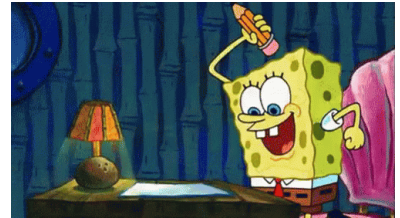
Homework- expectations

1 piece set every week

Posted on *Class Charts* with appropriate resources attached.

Good homework should:

- Consolidate classwork from that week
- Promote independent work
- Provide opportunities for tackling questions alone.





Assessment

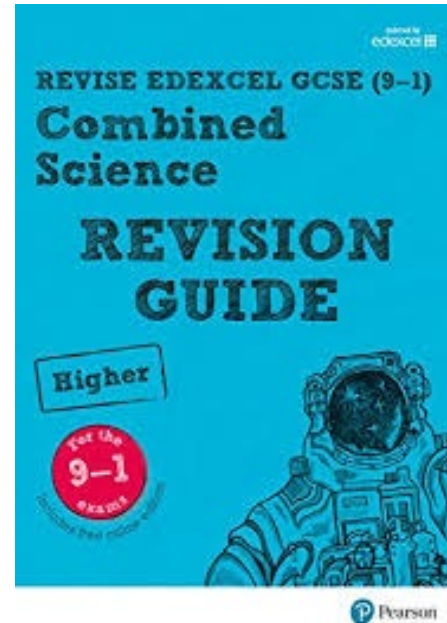
- Classwork marked every six lessons.
- Students act on teacher feedback in green pen to make improvements- really effective process.
- Short class assessment tasks at end of each sub-topic.
- Formal tests- used by us to track progress- at end of each module.
- Year 10 exam – published Edexcel GCSE exam.





Effective revision

Revision guides and workbooks will be available to purchase from school for combined and separate routes. These are an excellent resource.





Want to get a head start?

- Go on BBC bitesize to look at the activities and quizzes:
<https://www.bbc.co.uk/bitesize/examspecs/zqkww6f>
- Watch amazing documentaries such as Planet earth, Frozen planet or Blue Planet or YouTube clips like the “Cognito” channel.
- Read books or magazines on topics you are interested in. Your science teacher will be happy to recommend some.
- Go on to: <https://www.stem.org.uk/home-learning> and click on ‘Secondary Biology, Chemistry or Physics’ for fun activities you can get involved in.



Where can science take you?

