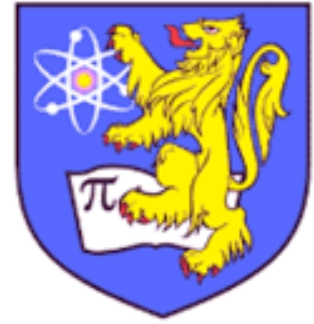


Woodkirk Academy
Course Handbook



LEVEL 3
CERTIFICATE IN
APPLIED SCIENCE



How is the Subject Examined

- There are three units in year 12 and a further three in year 13.

Year 12

- Units 1 and 3 are examined in year 12 and comprise 90 minute written exams
- Unit 1 covers scientific principles in biology, chemistry and physics.
- Unit 3 covers a single topical scientific issue selected by the exam board, previous examples include fracking, wind farms and heart attacks.
- The style of questions are multiple choice questions, structured questions, open and closed answer questions as specified below.
Unit 2 is a coursework portfolio. Students complete 6 standard investigations covering biology, chemistry and physics

The content of each paper is summarised below^[IR1]

	Unit title	Assessment type
1	Key concepts in science	Written exam
2	Applied experimental techniques	Portfolio
3	Science in the modern world	Written exam with pre-release material

Year 13

- Unit 4 is examined in year 13 and comprise a 90 minute written exam.
- Unit 4 covers knowledge and understanding of human anatomy and physiology
- Units 5 and 6 are coursework portfolios.
- Unit 5 Investigating science allows students to research and undertake a scientific investigation
- Unit 6a Microbiology allows students to study micro-organisms and carry out techniques used to cultivate and analyse micro-organisms.

For a more detailed breakdown of the subject content use the link to the specification below

<http://filestore.aqa.org.uk/resources/science/specifications/AQA-1775-SP-2016.PDF>

Other Resources Available to Support You

No specific text book is currently published for the course

Revision Top Tips

1.) **Avoid Distractions**

Revise away from the TV and especially your phone as this is a major distraction. Distractions such as checking phones has been proven to reduce the information absorbed. So put that phone away, turn off the T.V and find a quiet place to revise.



2.) **Flash Cards**

Ensure you practice and learn key definitions and formulas. Repetition is key to remembering key facts. Flash cards are available from your teacher, Quizlet or even better make your own. Test yourself on them then check the answer – repeat. You could even get someone else at home to test you on these.



3.) Look, Cover, Write, Check

Another way to revise key points and core practical's is look at the thing you are revising. Cover it over so you can't see it. Write it out and check whether you have done it correctly. Doing this with mind maps help to revise large chunks of information.



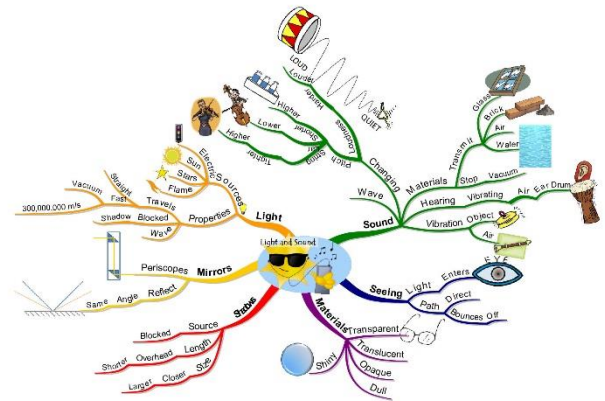
4.) Be organised

You have a large amount to revise. This can be daunting but with a bit of organisation plan out your revision. Be realistic about how long you will spend on each topic. Use the specification or tick lists to check you have covered everything. Don't try and cram everything in a short time period remember repetition is key.



5.) Don't just read or write out notes

The ability of the brain to remember visual information is much better than just text. Summarise notes using diagrams or use mind-maps. These are great when combined with the Look, Cover, Write, Check technique



6.) Attend Revision Sessions

Revision is every **Tuesday (yr12) and Thursday (y13)** after school. Teachers are there to help and guide you with areas that you are finding difficult.

7.) Practice Exam Questions

Booklets of exam questions are available on pupil share. You don't have to print these off. Just use a scrap piece of paper and complete these then mark your answers using the mark scheme.



Useful online Resources

There is a wealth of information available online to help you revise – here are just a few of our favourites

BIOLOGY

Information and activities based on cells, microbes and the immune system

cellsalive.com

- Information and resources based on cells, genetics and human biology

biologymad.com/frontpage.htm

- Revision notes on a range of biological topics

biology-innovation.co.uk

CHEMISTRY

<https://chemrevise.org/>

<http://chemguide.co.uk/>

<https://quizlet.com/en-gb>

<https://www.youtube.com/user/virtualschooluk>

PHYSICS

Energy resources from the Institute of Physics

supportingphysicsteaching.net/EnHome.html

- Energy and Electricity resources from the Institute of Physics

supportingphysicsteaching.net/EeHome.html

- An introduction to energy resources from the Open University

open.edu/openlearn/science-maths-technology/science/environmental-science/energy-resourcesintroduction-energy-resources/content-section-035

- Information and activities on energy resources

cyberphysics.co.uk/topics/energy/sources.htm