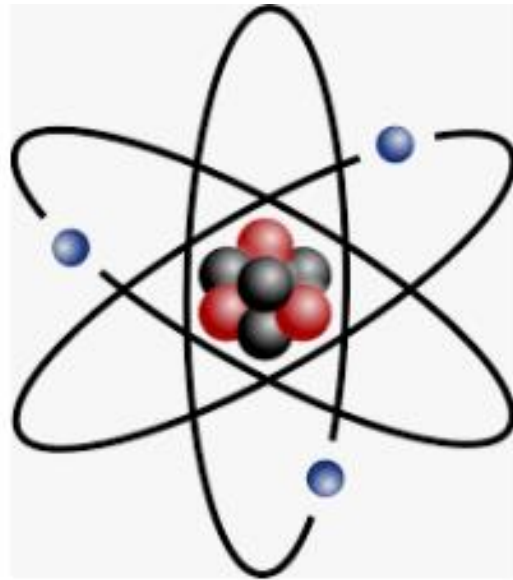


# The Science Department



**How can you support your son/daughter in GCSE Science?**

# Separate Science (AQA)

## 3 Separate GCSE qualifications

- Biology
- Chemistry
- Physics

*Where we think students will benefit more from doing Combined Science we will contact parents to discuss this further*

6 exams total  
1 hr 45  
100 marks  
**Grades 9-3**

# Combined Science (AQA)

**2 GCSE  
qualifications**  
→ Average Paper  
1 Grade  
→ Average Paper  
2 Grade

6 exams total  
1 hr 15  
70 marks  
**Grades:**  
Higher 9-9 to 4-3  
Foundation 55 to 1-1

*Where we think students will benefit more from doing a different tier we will contact parents to discuss this further*

Both courses will allow  
students to study A  
Level Sciences

# End of Year Mocks

## **Paper 1**

One paper for  
each science

3 exams total

1 hr 15

70 marks

# Biology Topics

## Paper 1:

1. Cells
2. Organisation
3. Infection & Response
4. Bioenergetics

## Paper 2:

5. Homeostasis & Response
6. Inheritance, Variation and Evolution
7. Ecology

# Chemistry Topics

## Paper 1:

1. **Atomic structure**
2. **Bonding and structure**
3. **Quantitative chemistry**
4. **Chemical changes**
5. **Energy changes**

## Paper 2:

6. **Rate & extent of reactions**
7. **Organic chemistry**
8. **Chemical analysis**
9. **Chemistry of the earth & atmosphere**
10. **Using Resources**

# Physics Topics

## Paper 1:

1. Energy
2. Electricity
3. Particle model
4. Atomic structure

## Paper 2:

5. Forces
6. Waves
7. Magnetism & electromagnetism
8. Space Physics  
(GCSE Physics only)



# Equipment



**Black pens, pencils (at least two of each)**



**A ruler (30cm) and protractor**

**Calculator – scientific, like the one used for Maths**



# Useful Resources

## 4.1.1.5 Microscopy

### Content

Students should be able to:

- understand how microscopy techniques have developed over time
- explain how electron microscopy has increased understanding of sub-cellular structures.

Limited to the differences in magnification and resolution.

An electron microscope has much higher magnification and resolving power than a light microscope. This means that it can be used to study cells in much finer detail. This has enabled biologists to see and understand many more sub-cellular structures.

<https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF>

BBC GCSE Bitesize:

<https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>

Seneca Learning: <https://senecalearning.com/en-GB/>

Save my exams: [www.savemyexams.co.uk](http://www.savemyexams.co.uk)

Past Papers

[www.aqa.org.uk/find-past-papers-and-mark-schemes](http://www.aqa.org.uk/find-past-papers-and-mark-schemes)

<https://www.physicsandmathstutor.com/past-papers/>

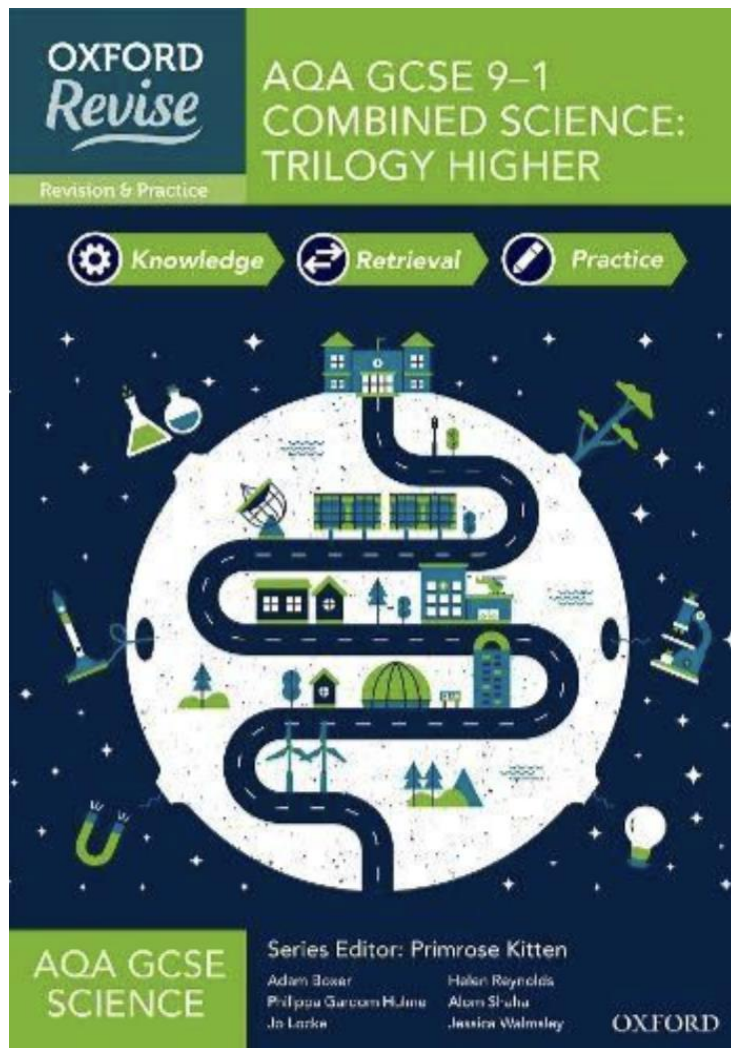
CGP revision guides and workbooks can be purchased from

[www.cgpbbooks.co.uk/secondary-books/gcse/science](http://www.cgpbbooks.co.uk/secondary-books/gcse/science)

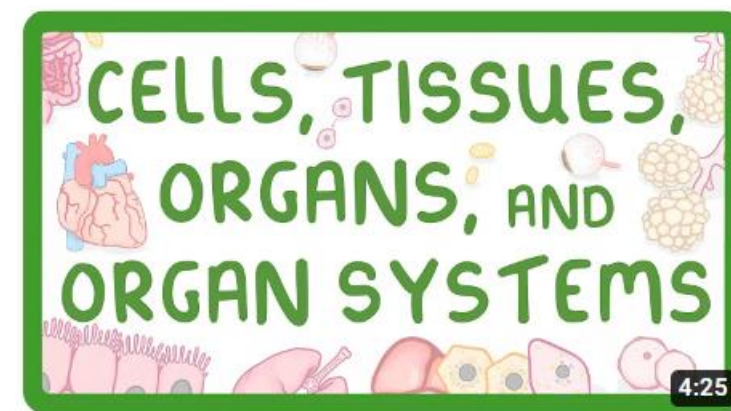
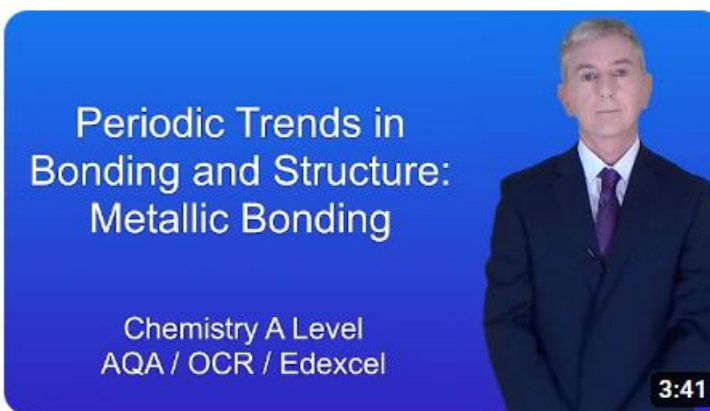
Students also have access to an online textbook on Kerboodle

[www.kerboodle.com](http://www.kerboodle.com)

# Revision Resources



**Parents will be informed by letter when these resources will be available to purchase at a discounted price**



YouTube: Free Science Lessons

Cognito