### Biology:
**Course:** AQA 8461  
**Key Dates:**  
- 8461/1H Paper 1 (new)  
  1h 45m 14 May 2019 pm  
- 8461/2H Paper 2 (new)  
  1h 45m 7 June 2019 am

**Units Covered:**  
- 4.1 Cell Biology  
- 4.2 Organisation  
- 4.3 Infection and Response  
- 4.4 Bioenergetics  
- 4.5 Homeostasis and Response  
- 4.6 Inheritance, Variation and Evolution  
- 4.7 Ecology

### Chemistry:
**Course:** AQA 8462  
**Key Dates:**  
- 8462/1H Paper 1 (new)  
  1h 45m 16 May 2019 am  
- 8462/2H Paper 2 (new)  
  1h 45m 12 June 2019 am

**Units Covered:**  
- 4.1 Atomic Structure and Periodic Table  
- 4.2 Bonding, Structure and the properties of matter  
- 4.3 Quantitative Chemistry  
- 4.4 Chemical Change  
- 4.5 Energy Changes  
- 4.6 Rate and extent of chemical change  
- 4.7 Organic Chemistry  
- 4.8 Chemical Analysis  
- 4.9 Chemistry of the Atmosphere  
- 4.10 Using Resources

### Physics:
**Course:** AQA 8463  
**Key Dates:**  
- 8463/1H Paper 1 (new)  
  1h 45m 22 May 2019 pm  
- 8463/2H Paper 2 (new)  
  1h 45m 14 June 2019 am

**Units Covered:**  
- 4.1 Energy Changes in a System  
- 4.2 Electricity  
- 4.3 Particle Model of Matter  
- 4.4 Atomic Structure  
- 4.5 Forces  
- 4.6 Waves  
- 4.7 Magnetism and Electromagnetism  
- 4.8 Space Physics

### What is on the exam?
#### Paper 1:
**What's assessed**  
Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

**How it’s assessed**  
- Written exam: 1 hour 45 minutes  
- Foundation and Higher Tier  
- 100 marks  
- 50% of GCSE

**Questions**  
Multiple choice, structured, closed short answer and open response.

#### Paper 2:
**What’s assessed**  
Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

**How it’s assessed**  
- Written exam: 1 hour 45 minutes  
- Foundation and Higher Tier  
- 100 marks  
- 50% of GCSE

**Questions**  
Multiple choice, structured, closed short answer and open response.

### What is on the exam?
#### Paper 1:
**What's assessed**  
Topics 1–4: Energy; Electricity; Particle model of matter; and Atomic structure.

**How it’s assessed**  
- Written exam: 1 hour 45 minutes  
- Foundation and Higher Tier  
- 100 marks  
- 50% of GCSE

**Questions**  
Multiple choice, structured, closed short answer and open response.

#### Paper 2:
**What’s assessed**  
Topics 5–9: Forces; Waves; Magnetism and electromagnetism; and Space physics.  
Questions in Paper 2 may draw on an understanding of energy changes and transfer due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity.

**How it’s assessed**  
- Written exam: 1 hour 45 minutes  
- Foundation and Higher Tier  
- 100 marks  
- 50% of GCSE

**Questions**  
Multiple choice, structured, closed short answer and open response.
Revision Sessions in Science

Revision in Science will mainly take place on a Thursday Night in Sc2 / Sc3 from 3.15pm - 4.15pm. Staff will lead revision sessions based on the Required Practical element of the course as well as revising course content. This will allow students to complete any practical work they have missed and also will allow staff to explore the key scientific ideas behind the practicals.

A drop-in session will also be available between 12.15pm and 12.50pm on Wednesday lunchtime in Sc3. This will allow students to ask members of staff specific questions about the course.

Staff are always available in the Science Office on the ground floor of the Science Department if students require any assistance.

Revision Guides

Revision guides are available for Single Science from the Science office at a cost of £15 for all three Biology, Chemistry and Physics. As well as revision material each guide contains practice questions and exam questions.

It is recommended that students use these as a starting point for their revision.

Exams in Year 11:

There are 2 main mock exams in Science in Year 11. They are:

**Mock 1 – W/C 10th December**
Students will be sitting an actual Paper 1 in Biology, Chemistry and Physics (3 x 1hr 15mins)

- **Biology:** Paper 1 (Units 4.1 – 4.4) -1hr 45 mins
- **Chemistry:** Paper 1 (Units 4.1 - 4.5) -1hr 45 mins
- **Physics:** Paper 1 (Units 4.1 – 4.4) -1hr 45 mins

**Mock 2 – TBC**
Students will complete Paper 2 in all three Science disciplines:

- **Biology:** Paper 2 (Units 4.5-4.7) -1hr 45 mins
- **Chemistry:** Paper 2 (Units 4.6-4.10) -1hr 45 mins
- **Physics:** Paper 2 (Units 4.5-4.7) -1hr 45 mins

Grades:

Students will be awarded a separate Grade for each of their Science GCSE qualifications. These are totally independent of each other.

Useful Resources:

There are some excellent ICT Resources available to help revision. Please visit and use the websites and download the Apps listed below. These include:

**Websites:**

- **SAM Learning** – Login details available from Science teacher – [https://www.samlearning.com/](https://www.samlearning.com/)
- **BBC Bitesize** - [https://www.bbc.co.uk/education/levels/z98jmp3](https://www.bbc.co.uk/education/levels/z98jmp3)
- **Achieve in Science** – see flyer
- **GCSEPod** – Excellent resource for all subjects which school has subscribed to – see staff for details

**Apps:**

Several really good apps are available to download, including:

- **Gojimo** – Excellent question-based activities
- **GCSEScholastic GCSE 9-1** – Excellent revision planning and questions
- **Brainscape Flashcards** – Excellent revision flashcards
- **Revision Buddies** – Large selection of multiple choice questions, just choose your subject

Contact Us: If you wish to contact the Science department please contact us at the school Parent mail address: parentenquiry@calderhigh.calderdale.sch.uk

AQA Website: For copies of the syllabuses, past paper questions and more information from AQA, go to: [http://www.aqa.org.uk/subjects/science/gcse](http://www.aqa.org.uk/subjects/science/gcse) and follow the link to the specific subject.

The school website has a wealth of Science revision resources including a large amount of past paper questions and mark schemes. Please visit: [https://www.calderlearningtrust.com/students/revision-materials/science/gcse/](https://www.calderlearningtrust.com/students/revision-materials/science/gcse/)