Trilogy Science offers students the chance to study all three Science disciplines and gain two GCSE qualifications in Science. Students will have 6 exams, 2 in Biology, 2 in Chemistry and 2 in Physics. As there is no coursework in Science, students will be tested on their practical understanding extensively in the exam.

### Biology Component:
**Exams:**
- 8464 Paper 1: Biology - 1h 15m 14th May 2019 pm
- 8464 Paper 2: Biology - 1h 15m 7th June 2019 pm

**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 Component:
**Exams:**
- 8464 Paper 1: Chem - 1h 15m 16th May 2019 am
- 8464 Paper 2: Chem - 1h 15m 12th 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 Component:
**Exams:**
- 8464 Paper 1: Physics 1h 15m 22nd May 2019 pm
- 8464 Paper 2: Physics 1h 15m 14th 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

**Assessments:** There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.
**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.

**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)
- **Chemistry:** Paper 1 (Units 4.1 - 4.5)
- **Physics:** Paper 1 (Units 4.1 – 4.4)

**Mock 2 – W/C 11th February**

Students will complete Paper 2 in all three Science disciplines:

- **Biology:** Paper 2 (4.5-4.7)
- **Chemistry:** Paper 2 (4.6-4.10)
- **Physics:** Paper 2 (4.5-4.7)

**Tier Entry:**

Students will either be entered for Higher or Foundation Tier. The tier entry will be discussed with students and parents if necessary but ultimately the teacher will enter students for the most appropriate tier.

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

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**REVISION GUIDES**

Revision guides are available for Trilogy Science from the Science office at a cost of £10 for the Trilogy revision guide. 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.

**Grades**

- Combined Science has a grading system where students marks in each exam is combined and they are awarded two grades which will be either the the same or one grade difference Eg 9,9; 8,7; 6,6; 6,5; 5,5, 4,3.

**Useful Resources:**

There are some excellent ICT Resources available to help revision. Please visit and use the websites and download the Apps mentioned 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)
- **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

**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/)