

Science at a Glance	
Head of Department	Mr K Barrett
Lessons per fortnight	8
Homework per fortnight	120 mins





Year 11 Additional Science

1. Course & Subject Information

Three one-hour exams for each of physics, biology and chemistry (Units B2, C2 and P2) with a controlled assessment (Unit 4). Each unit carries a 25% weighting.

The controlled assessment is not tiered but students take either the Foundation Tier or the Higher Tier for the written papers.

2. Course/Subject Structure

 Biology	<ul style="list-style-type: none"> • Cells and simple cell transport • Tissues, organs and organ systems • Photosynthesis • Organisms and their environment • Proteins their function and uses • Aerobic and anaerobic respiration. • Cell division and inheritance. • Speciation.
 Chemistry	<ul style="list-style-type: none"> • Structure and bonding • How structure influences the properties and uses of substances • Rates of reaction • Exothermic and endothermic reactions • Acids, bases and salts • Electrolysis
 Physics	<ul style="list-style-type: none"> • Forces and their effects • The Kinetic energy of objects speeding up or slowing down • Currents in electrical circuits • Using mains electricity safety and the power of electrical appliances • What happens when radioactive substances decay. Their dangers and emissions • Nuclear fission and fusion
 Controlled Assessment (ISA)	<ul style="list-style-type: none"> • Planning and investigation • Carry out a practical. • Collect primary data. • Analyse and interpret data

3. Recommended texts or websites to support home learning

<http://www.bbc.co.uk/education/subjects/zrkw2hv>

<http://www.aqa.org.uk/subjects/science/gcse>

<http://www.aqa.org.uk/subjects/science/gcse/science-a-4405/past-papers-and-mark-schemes>

<http://www.aqa.org.uk/subjects/science/gcse/additional-science-4408/past-papers-and-mark-schemes>

<http://www.antonine-education.co.uk/>

4. Specialist Equipment/Materials Required if applicable

Students should come to every lesson with the basic equipment of a pen, pencil and ruler. Lab coats are not essential and will be provided if required during the lesson. It is

fully expected that students adhere to safety procedures in the laboratories and wear safety goggles when instructed.

5. Exam Information

For more information, click on 'Examinations' in the 'Curriculum' menu on our website.

6. Study Support

The department runs weekly study support sessions for Year 11 students. We also have a science club which meets weekly. The science teachers are always available to meet with students wishing to discuss issues surrounding their science education.