

SCIENCE - Core

Examination Board: AQA Syllabus A



Syllabus Content:

GCSE SCIENCE + GCSE ADDITIONAL SCIENCE

The subject is taught in six lessons per week: two Biology, two Chemistry and two Physics. Core Science students will be externally examined for this qualification in June of Year 10. The grade for this qualification will be awarded to them with their other Year 11 GCSEs.

In Year 11 students follow the Additional Science course which extends their understanding of the three sciences. As with Year 10, this will be taught in six weekly lessons: two Biology, two Chemistry and two Physics. Students will be externally examined for this qualification in June of Year 11. The grade for this qualification will be awarded with the other Year 11 GCSEs. The grades for Science and Additional Science are separate so students may receive different grades in each.

GCSE SCIENCE – YEAR 10	GCSE ADDITIONAL SCIENCE – YEAR 11
Biology <ul style="list-style-type: none">• How do human bodies respond to changes inside them and to their environment?• What can we do to keep our bodies healthy?	Biology <ul style="list-style-type: none">• What are animals and plants built from?• Which human characteristics show a simple pattern of inheritance?
Chemistry <ul style="list-style-type: none">• How do rocks provide building materials?• What are the changes in the Earth and its atmosphere?	Chemistry <ul style="list-style-type: none">• How do sub-atomic particles help us to understand the structure of substances?• How can we control the rates of chemical reactions?
Physics <ul style="list-style-type: none">• How is heat (thermal energy) transferred and what factors affect the rate at which heat is transferred?• How should we generate the electricity we need?	Physics <ul style="list-style-type: none">• How can we describe the way things move?• What are nuclear fission and nuclear fusion?

Assessment:

For Core Science students will be examined by three forty-five minute written papers: Biology 1, Chemistry 1 and Physics 1, sat in June of Year 10. These comprise 75% of the total mark.

The remaining 25% is determined by a centre administered Investigate Skills Assessment (I.S.A.). During Year 10 students will have an opportunity to complete

an I.S.A. in each area (Biology, Chemistry, Physics) and the highest scoring I.S.A. will be counted towards the final mark.

For Additional Science GCSE students will be examined by three forty-five minute written papers: Biology 2, Chemistry 2 and Physics 2, sat in June of Year 11. These comprise 75% of the total mark.

The remaining 25% is determined by the best example of an I.S.A. completed in Year 11. Year 11 I.S.A.s are quite separate from Year 10 I.S.A.s

GCSE Science

Section	Topics	Exam	Exam Value
1.	Biology 1	Written	25%
2.	Chemistry 1	Written	25%
3.	Physics 1	Written	25%
4.	Centre-Assessed Unit	I.S.A. Paper + Skills Test	25%

GCSE Additional Science:

Topics	Exam	Exam Value
Biology 2	Written	25%
Chemistry 2	Written	25%
Physics 2	Written	25%
Centre-Assessed Unit	I.S.A. Paper + Skills Test	25%

Students who wish to obtain three science GCSEs, can study for **Triple Science**. This will be an option that students can choose to take.

TRIPLE SCIENCE

This teaching group will be studying for three GCSEs, one in Biology, one in Chemistry and one in Physics. This will be taught in nine lessons a week for both Years 10 and 11.:

3 Physics

3 Chemistry

3 Biology

Assessment

Each subject is split into three sections, for example Biology 1, Biology 2 and Biology 3. All three sections in all subjects will be assessed individually with forty-five minute papers. There are opportunities to sit these in January or June of both Year 10 and Year 11. As to when each group will sit these papers will depend on their progress throughout the course.

In addition to the above papers, students will need to complete an I.S.A. (Investigate Skills Assessment) for each subject area.

For further information please contact Mr G Sargen, Head of Science