

Science

Science involves teaching students how to understand the world around them. Inquisitive minds are developed and logic based skills are applied.

Students receive lessons in the three disciplines; biology, chemistry and physics and will be examined in each subject at the end of Year 11 working towards achieving two GCSE qualifications. The course studied is AQA GCSE Trilogy Combined Science.

Students follow a linear GCSE with the aim to complete the course in a final exam in the summer of Year 11. The course has two tiers of entry and students are assessed on ability regularly and entered for the appropriate tier. The two tiers are:

- Foundation grades - 5 -1
- Higher grades – 9-4

Below is a link to the specification we are following:

<https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Extension tasks and revision programmes can be found by accessing;

<https://www.bbc.com/bitesize/examspecs/z8r997h>

Below is a list of topics that are covered over the 2 year course:

Biology	Chemistry	Physics
<ol style="list-style-type: none"> 1. Cells 2. Organisation 3. Infection and response 4. Bioenergetics 5. Homeostasis and response 6. Inheritance, variation and evolution 7. Ecology 	<ol style="list-style-type: none"> 1. Atomic structure and the periodic table 2. Bonding, structure and the properties of matter 3. Quantitative chemistry 4. Chemical changes 5. Energy changes 6. The rate of chemical change 7. Organic chemistry 8. Chemical analysis 9. Chemistry of the atmosphere 10. Using resources 	<ol style="list-style-type: none"> 1. Energy 2. Electricity 3. Particle model of matter 4. Atomic structure 5. Forces 6. Waves 7. Magnetism and electromagnetism

How parents can help develop skills:

You can support the work we are doing by attending parent events, keeping up to date by regularly accessing our website and enquiring about what your child is doing in school. Watch documentaries such as Planet Earth together and discuss and consider the viewpoints presented. Encourage your child to apply science in everyday conversations, discuss research into diseases and cures and point out the scientific experimental processes which are involved in discovering new medications. Talk to your child about how all products have to be tested before they can be put out for human use or consumption encourage them to consider why this is.

We understand that some parents may feel they lack confidence with scientific matters and that the curriculum is forever evolving. At Endeavour Academy we have excellent relationships with East Durham College where there are a number of courses available to enhance adult skills. Should you be interested in returning to education then please see the link below;

https://www.eastdurham.ac.uk/east_durham_college_courses

Should you wish to find out more about what our students learn from science lessons then please contact Endeavour Academy.