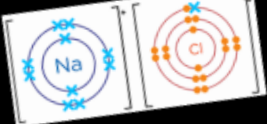




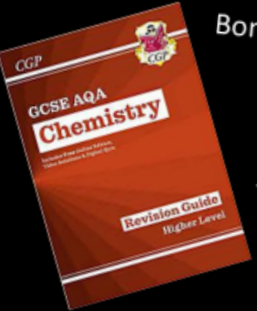
- We study the AQA Specification (see www.aqa.org.uk for further details).
- Combined Science students will complete six exams at the end of Year 11: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas. All papers are 1 hour and 15 minutes in length.
- Separate Science students will complete three separate GCSE courses: Biology, Chemistry and Physics in Year 11. Each will be assessed via two exams papers both 1 hour and 45 minutes in length.
- Students start their GCSE Science courses at the beginning of Year 9. The decision around whether they complete Combined Science Higher, Combined Science Foundation or Triple Science is not decided until the beginning of Year 11, based on the Grade they achieved in their Year 10 Exams, although there is fluidity between pathways for the duration of the GCSE courses.

What you will study...

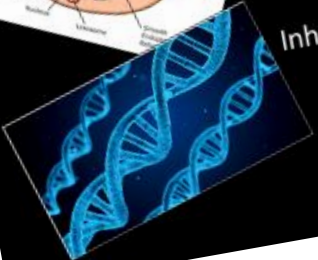
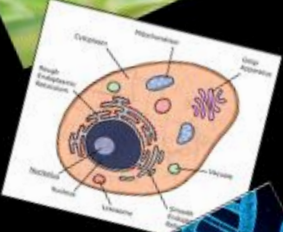

Chemistry



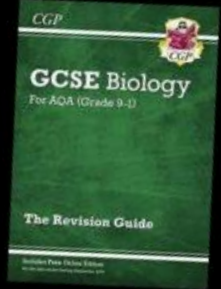
- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources




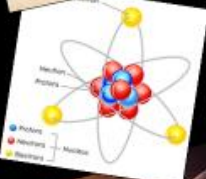

Biology



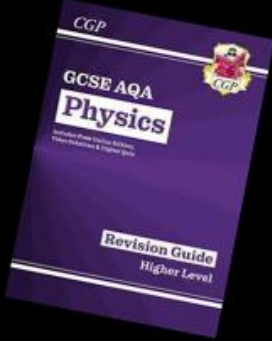
- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology



Physics



- Energy
- Electricity
- Particle model of matter
- Atomic structure
- Forces
- Waves
- Magnetism and electromagnetism
- Space physics





Biology

Cell biology

Organisation

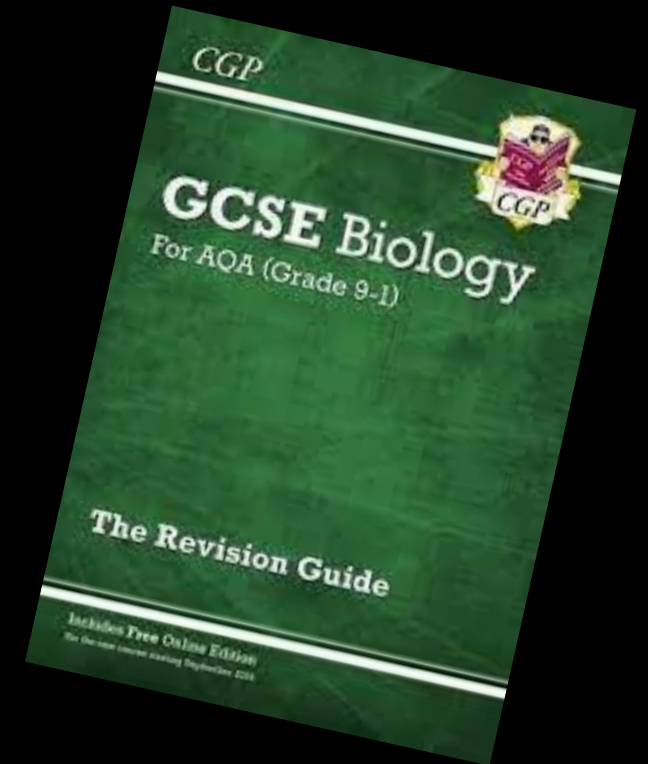
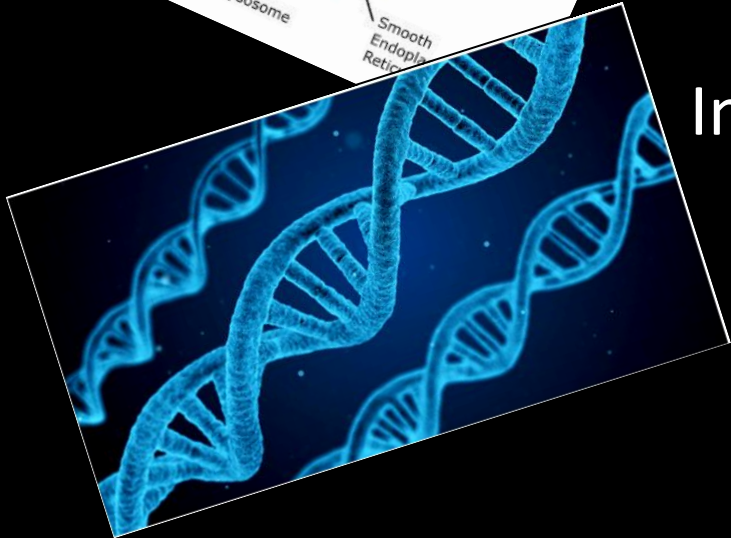
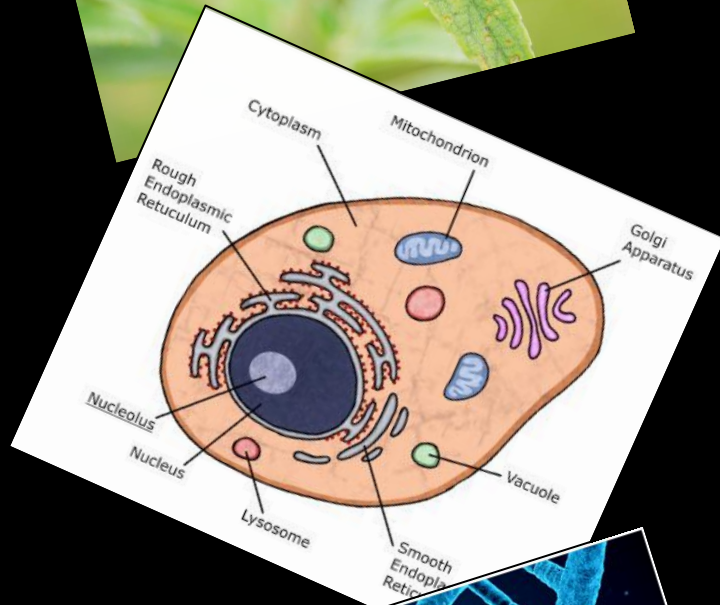
Infection and response

Bioenergetics

Homeostasis and response

Inheritance, variation and evolution

Ecology





Chemistry

Atomic structure and the periodic table

Bonding, structure, and the properties of matter

Quantitative chemistry

Chemical changes

Energy changes

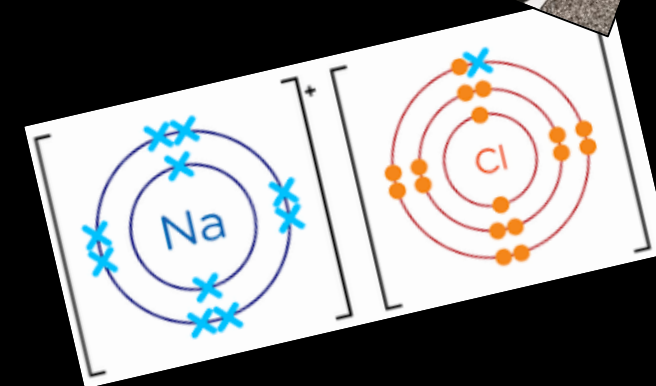
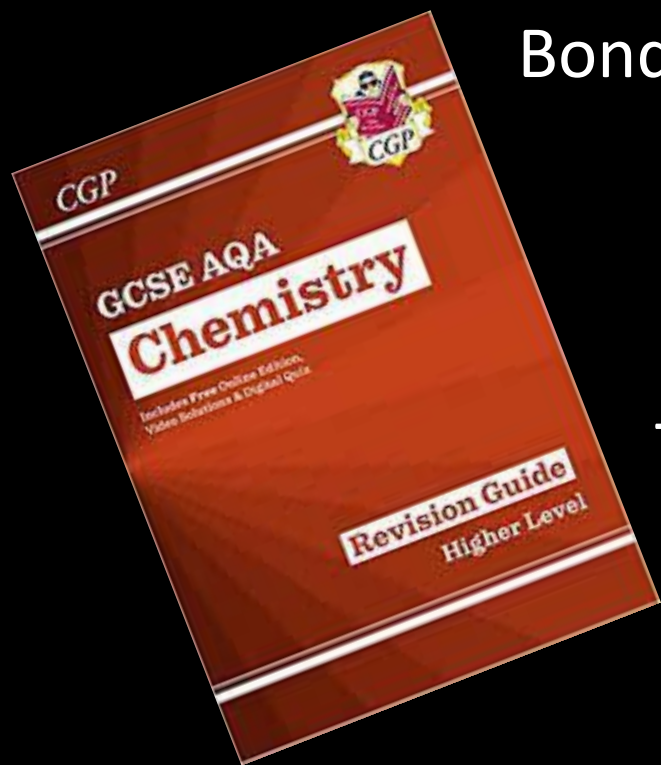
The rate and extent of chemical change

Organic chemistry

Chemical analysis

Chemistry of the atmosphere

Using resources





Physics

Energy

Electricity

Particle model of matter

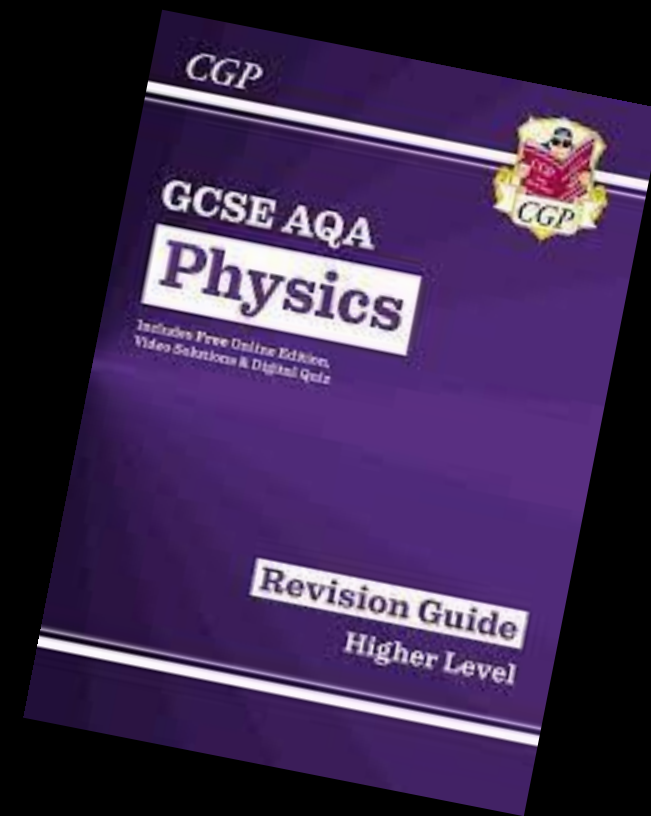
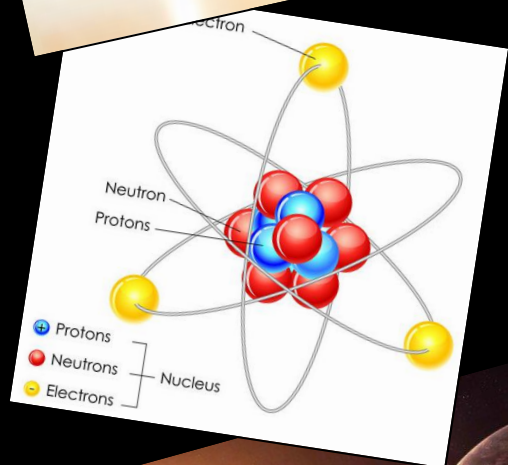
Atomic structure

Forces

Waves

Magnetism and electromagnetism

Space physics



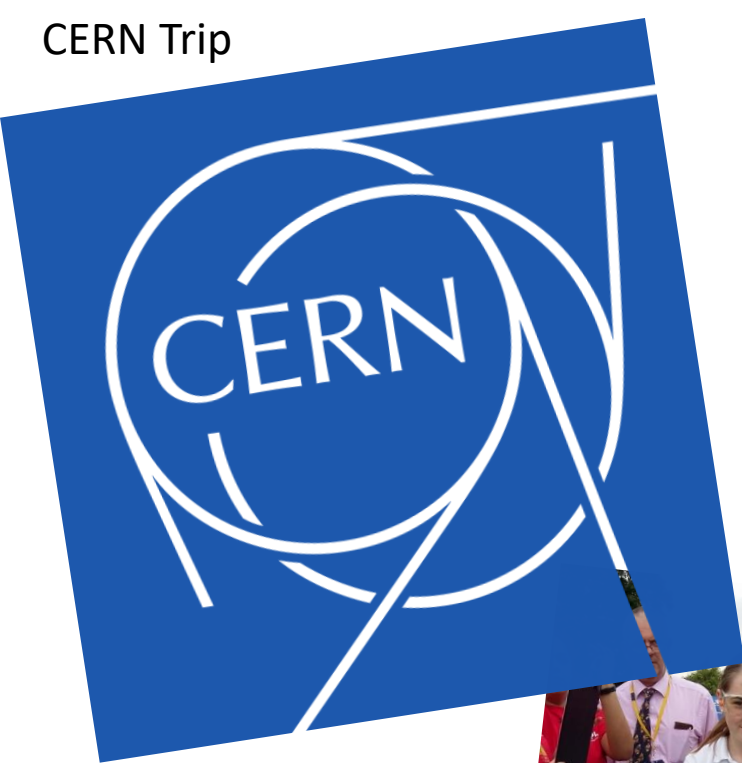
What skills you will develop...

You will develop an understanding of the nature of science, its laws and applications, and the influences of science on society. You will apply appropriate skills, including communication, mathematical and technological skills, knowledge and understanding in a range of practical and other contexts and use models to explain phenomena, events and processes.

Through practical work, you will analyse, interpret and evaluate a range of quantitative and qualitative data and information, and be able to draw conclusions which are consistent with the evidence.



CERN Trip



ECO Club



Dissection Club

Living Eggs

Urban Farm

16+ Progression and Careers

There are many things you can go on to do with a GCSE in Science. It provides a good preparation for a variety of academic and vocational courses.

At Tolworth, you could join our successful Science A Level courses in Biology, Chemistry and Physics, or the BTEC Level 3 Applied Science course.

Science gives you a variety of skills which are applicable to different careers, not just those associated directly with Science. The transferable skills developed would be useful for students wishing to pursue a career in Law, Architecture, Medicine and Sports Engineering, or any career that involves persuasive communication of ideas or having an experimental approach to problem solving.



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