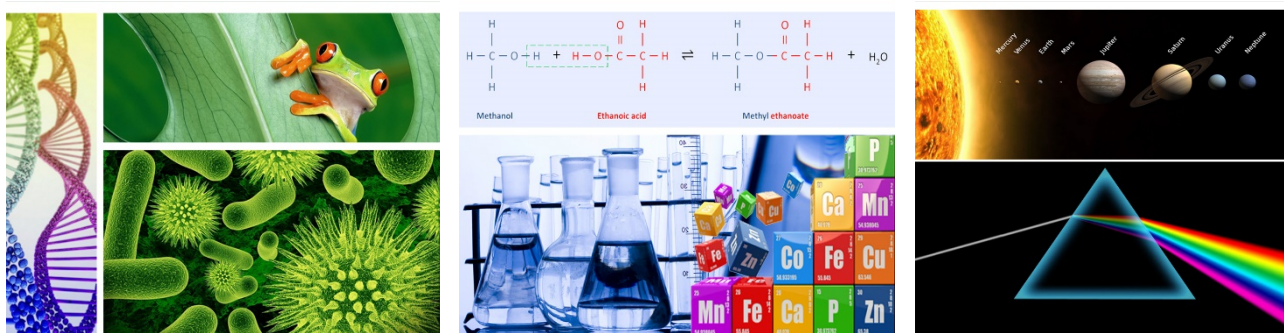


GCSE Combined Science

Exam Board: Edexcel

Aims of the course:

- To develop students' understanding of the science around them that affects them in their everyday life
- To develop students' questioning, analytical and evaluative approach to scientific problems and issues
- To develop students' practical skills in science and an understanding of how science works
- To encourage enthusiasm about science leading to continued study.



Content & Structure:

Science is one of the core subjects of the National Curriculum. Topics from each of the three sciences (Biology, Chemistry and Physics) must be studied by all students in Key Stage 4. A broad curriculum is supported by a variety of practical activities. Students will study:

Biology: Cells & Microscopy, Genetics, Enzymes, Natural Selection, Health & Disease, Plant Structure, Exchange & Transport in Animals, Homeostasis and Ecosystems

Chemistry: States of Matter, Separating Substances, Structure & Bonding, The Periodic Table, Acids & Alkalis, Calculations in Chemistry, Electrolysis, Rates of Reaction, Fuels and the Atmosphere.

Physics: Force & Motion, Energy, Waves and the Electromagnetic Spectrum, Radioactivity, Electricity & Circuits, Magnetism & The Particle Model

Students will be entered for the Combined Science GCSE and obtain a double grade worth 2 GCSE's

This course is studied across 3 years

Assessment:

Final assessment is by 6 externally assessed examination papers. There are 2 in each of the Sciences taken at the end of the course. Each paper is 70 minutes long.

Throughout the course students are internally assessed and their grades are tracked

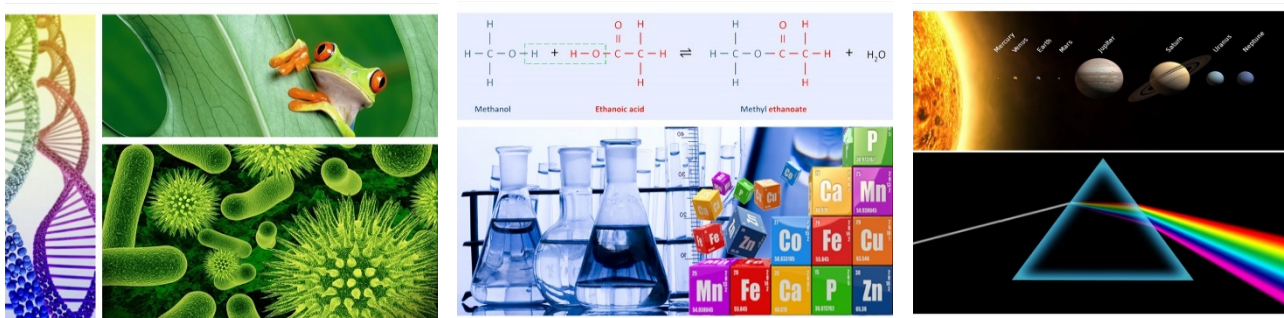
For further information, contact Mr S Bennett

GCSE Triple Science

Exam Board: Edexcel

Aims of courses:

- To develop students' understanding of the science around them that affects them in their everyday life
- To develop students' questioning, analytical and evaluative approach to scientific problems and issues
- To develop students' practical skills in science and an understanding of how science works
- To encourage enthusiasm about science leading to continued study.



Content & Structure:

Science is one of the core subjects of the National Curriculum. Topics from each of the three sciences (Biology, Chemistry and Physics) must be studied by all students in Key Stage 4. Students who opt to study separate GCSE's in Biology, Chemistry and Physics will study a broader range of topics. Students will study:

Biology: Cells & Microscopy, Genetics, Enzymes, Natural Selection, Health & Disease, Plant Structure, Exchange & Transport in Animals, Homeostasis and Ecosystems, **The Eye and Brain, Plant defences, The Kidney, Thermoregulation**

Chemistry: States of Matter, Separating Substances, Structure & Bonding, The Periodic Table, Acids & Alkalis, Calculations in Chemistry, Electrolysis, Rates of Reaction, Fuels and the Atmosphere, **Titration, The Haber Process, Alcohols & Carboxylic Acids, Polymerisation, Materials, Ion Tests.**

Physics: Force & Motion, Energy, Waves and the Electromagnetic Spectrum, Radioactivity, Electricity & Circuits, Magnetism & The Particle Model, **Astronomy, Static Electricity, Pressure, Lenses Ears & Hearing and Fusion & Fission**

Those topics in bold are studied by Triple Science students only. All other topics are studied by both Combined and Triple Science students. Students will be entered for separate Science GCSE's and obtain 3 separate GCSE grades in Biology, Chemistry and Physics

Assessment:

Final assessment is by 6 externally assessed examination papers. There are 2 in each of the Sciences taken at the end of the course. Each paper is 105 minutes long. Throughout the course students are internally assessed and their grades are tracked

For further information, contact Mr S Bennett