

# Chemistry

## Why choose Chemistry?

- Chemistry is essential for meeting our basic needs of food, clothing, shelter, health, energy, and clean air, water, and soil. Chemical technologies enrich our quality of life in numerous ways by providing new solutions to problems in health, materials, and energy usage. Chemistry provided solutions to the covid-19 pandemic and chemistry graduates create the vaccinations that saved millions of lives!
- It is an interesting subject requiring and developing a variety of skills.
- Chemistry is often called the 'branching science' because it links so well with other science subjects like biology, physics, geology, biochemistry and pharmacology.
- Chemistry is essential for medicine and dentistry. It is a vital part of many science related degrees including forensic science.
- A qualification in chemistry is highly valued by many employers including marketing, law and accountancy. It leads to a wide variety of careers. If you are undecided, more options are kept open by studying chemistry. Chemistry develops skills of analysis, evaluation and critical thinking—highly valued in all areas of employment or higher education

## What can I expect to learn?

You will explore many interesting topics under three main headings—physical, inorganic and organic chemistry. You will learn about how medicines are made and synthesize your own sample of aspirin. There is an emphasis on using investigative techniques and laboratory based practical work to enhance your learning.

You will study a range of topics that will be tested in three exam papers. At least 15% of the paper involves maths and therefore we will look at both your maths and English before accepting you onto the chemistry course.

As there is no coursework; practical skills are assessed throughout the two years and there are 12 required practicals that must be carried out and recorded in a lab book. To achieve a pass and a certificate for your practical work, all lessons must be attended and recorded to a high standard.

## Where does this course lead?

If you are interested in medicine related careers such as becoming a doctor or a dentist you will find that a level Chemistry is a requirement.

You will also find opportunities in the following areas;

- Chemical Industry
- Public Services
- Academia and Teaching
- Publishing, Technical Writing
- Patent Law, Intellectual Property Law
- Finance and Investment Analysis

## Entry requirements:

Separate Science minimum **grade 6** in Chemistry.

Combined Sciences minimum **grade 6 6** and your Chemistry component must be minimum grade 6.

Additionally you need a **grade 4** in English and **grade 5** in Maths.

