

COURSE OBJECTIVES

- construct and apply knowledge of chemistry, and appreciate the relationship between chemistry and other disciplines;
- appreciate and understand the evolutionary nature of science;
- develop skills for making scientific inquiries;
- develop the ability to think scientifically, critically and creatively, and solve problems individually and collaboratively in chemistry-related contexts;
- discuss science-related issues using the language of chemistry;
- develop open-mindedness, objectivity and pro-activeness;
- show appropriate awareness of working safely;
- understand and evaluate the social, ethical, economic, environmental and technological implications of chemistry, and develop an attitude of responsible citizenship.

REQUIREMENTS FOR STUDYING CHEMISTRY

- curious and interest in science
- make decisions based on evidence and arguments
- use symbols, formulae, equations and conventions appropriately
- organise and present ideas and arguments in a clear and logical form
- liaise, negotiate and compromise with others in group work
- willing to learn and self-learn
- enjoy to carry out experiments in laboratory

SYLLABUS**Compulsory Part**

I Planet Earth	VII Redox reactions, Chemical cells and Electrolysis
II Microscopic world I	VIII Chemical reactions and Energy
III Metals	IX Rate of reaction
IV Acids and Bases	X Chemical equilibrium
V Fossil Fuels and Carbon compounds	XI Chemistry of Carbon compounds
VI Microscopic world II	XII Patterns in the Chemical World

Elective Part

I	Material Chemistry
II	Analytical Chemistry

ASSESSMENT AND EXAMINATION

The public assessment of Chemistry will consist of a public examination component and a school-based assessment component as outlined in the following table:

Component	Outline	Weighing	Duration
Public examination	Paper 1 Compulsory part	60%	2.5 hours
	Paper 2 Elective part	20%	1 hour
School-based assessment (SBA)	Practical related tasks	20%	

Public Examination

Paper 1 comprises two sections, A and B.

Section A consists of multiple-choice questions and carries 18% of the subject mark.

Section B includes short questions, structured questions and essay, and carries 42% of the subject mark.

Candidates have to attempt **all** questions in paper 1.

Paper 2 consists of structured questions and carries 20% of the subject mark. Candidates are required to answer the questions on the 2 electives selected.

School-based assessment (SBA)

Students are required to perform a stipulated number of pieces of practical work, which may include designing experiments, and reporting and interpreting the results. The work should be integrated closely with the curriculum content and form a part of the normal learning and teaching process.

	Basic Chemical Analysis	Experiment
Weighing	40%	60%