Chemistry

Pearson Edexcel IGCSE (Course Code: 4CH1)

Description

The Chemistry IGCSE programme provides students with opportunities to learn about the unifying patterns and themes in chemistry and use them in new and changing situations. During the course, students will apply the principles and concepts of chemistry, including those related to the applications of chemistry, to different contexts allowing them to evaluate chemical information and make judgements based on this information. Students will learn to appreciate the practical nature of chemistry, developing experimental and investigative skills based on correct and safe laboratory techniques. This will allow them to recognize the importance of accurate experimental work and reporting scientific methods in chemistry

The programme acts as an excellent springboard for further study in chemistry and all areas of science. However, it also enables students to develop a range of transferable skills. These include the development of a logical approach to problem-solving and the enhancement of analysis, interpretation and evaluative skills. Along with this, students will learn how to successfully manipulate specialised apparatus through various practical methodologies.

Assessment Breakdown

Component 1	Written Examination	This paper is assessed through a 2-hour written examination paper set and marked by Pearson. The assessment focuses on core content, and the total number of marks is 110. It consists of a mixture of different question styles, including multiple-choice questions, short-answer questions, calculations and extended open-response questions that may come from any topic area across the syllabus.	61%
Component 2	Written Examination	This paper is assessed through a 1-hour and 15-minute written examination paper set and marked by Pearson. The assessment on all content and the total number of marks is 70. It consists of a mixture of different question styles, including multiple-choice questions, short-answer questions, calculations and extended open-response questions that may come from any topic area across the syllabus.	39%

Course Outline

Year	Michaelmas Term	Lent Term	Trinity Term
9	States of matter and Separation techniques Atomic Structure & RFM Bonding	Chemical Reactions, Formula & Equations Periodic Table Rates of Reaction	Gases in the Atmosphere
10	Tests for ions Quantitative 1 Energetics Structure	Reactivity & Extraction of Metals Organic 1	Acids, Alkalis & Salts
11	Quantitative 2 Organic 2	Equilibria	Revision and final exam preparation

Additional Information

Students will be expected to undertake several core practicals throughout the IGCSE Chemistry programme. Although these are not formally assessed, a knowledge and understanding of how to conduct and interpret these practical investigations will be required for the final examinations.