IB Chemistry

Overview

Chemistry is often called the central science as it underpins both the physical environment and biological systems. In this program, student will work with a mentor to identify their strengths and weaknesses, and subsequently develop a pathway to improve. Students will cover a range of topics to develop their overall science understanding. While studying specific topics, the program incorporates Chemistry-related studies in order to enhance student's data analysis skills and improve critical thinking about certain aspects of the scientific method. Lastly, the student will work with their mentor to develop their report writing technique.

Objectives

- Develop a more comprehensive knowledge of the scientific method
- Improve analytical and evaluative skills through interpretation of abstract ideas
- Enhance knowledge of molecules, reaction pathways and the properties of matter amongst other topics
- Develop presentation and report writing technique

Structure

- Reflect on current knowledge of the range of topics that Chemistry covers and identify strengths and weaknesses
  - Develop a personalised curriculum
- Investigate Chemistry-related studies and theories in the world today
  - Real-world examples
  - Ethical concerns
  - Limitations of scientific endeavours
- Collaboratively develop data analysis skills
  - Question reliability and validity of data
- Practice reporting primary and secondary data in the form of a report
  - Scientific writing style
- Exam practice
  - Past papers
  - Planning and structuring responses
  - Analysing and evaluating sources

20 hour **PROGRAM**

Hour 0-1
Introduction & Reflection

Hour 1-5
Data Analysis Skills

Hour 5-10
Discover & Discuss Chemistry Studies & Theories

Hour 10-14
Report Writing

Hour 14-20
Hone & Master

Contact: ascend.now@ascendnow.info, + 65 8139 2314 (WhatsApp) or +65 8249 5704 (Whatsapp)

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