IGCSE Physical Science

Overview

The physical sciences aim to explain everything around us. Through studying the tiniest particles to the wide expanse of the universe, the physical sciences aim to connect the physical environment to biological systems. Furthermore, this program aims to assist students in developing sufficient knowledge and understanding to participate in society as confident, technologically-able citizens. With a mentor, students will broaden their knowledge and understanding, covering a wide range of topics that relate to the physical sciences. Through investigating and studying various real-world situations, students will be able to develop their data analysis and evaluation skills, helping to enhance their report writing technique. As students participate in this program, they will learn about the scientific method and the ethical concerns and limitations that are apparent in conducting research in the biological field of science.

Objectives

- Develop a more comprehensive knowledge of the scientific method
- Improve analytical and evaluative skills
- Acquire a better understanding of the technological world
- Develop presentation and report writing technique

Structure

- Reflect on current knowledge of the range of topics that Physical Sciences covers and identify strengths and weaknesses
  - Develop a personalised curriculum
- Investigate issues around the world today
  - Real-world examples
  - Scientific method (usefulness and limitations)
  - Ethical concerns
- Develop data analysis skills
  - Critical thinking and evaluation skills
  - Appreciate how scientific data and results can positively and negatively affect individuals, communities and the environment
- 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

16 hour **PROGRAM**

Hour 0-1
Introduction & Reflection

Hour 1-3
Data Analysis Skills

Hour 3-10
Discover & Discuss Physical Science Theories

Hour 10-12
Report Writing

Hour 12-16
Hone & Master

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