

Primary School Science

Overview

During this program, students will work on personalised SMART goals aimed at enhancing their scientific knowledge. Students will work on a 1:1 basis with a mentor to develop their critical thinking, inquiry mindset and overall sense of curiosity about the processes that drive the ever-changing world in which they live. After identifying their strengths and weaknesses, students will conduct various simple scientific experiments which related to the topics mentioned below. This program aims to expand their knowledge and understanding of a variety of science topics and to equip them with the skills to explore how science is interwoven into the world they experience daily. Students will have the opportunity to communicate their preferred methodologies throughout the course, which will help them understand, develop, and execute their learning strategy.



Objectives

- Extend general scientific skill set
- Develop interest in various science topics and an overall sense of wonder about the subject
- Expand student curiosity and willingness to inquire about the changing world in which they live
- Further understanding of how science is a real-world subject and is used in everyday life

Structure

- Review prior knowledge and identify areas to specifically target
 - Set SMART goals
 - Develop a personalised curriculum with an associated timeline based on a specific set of goals.
- Develop scientific skills
 - Critical thinking
 - Inquiring mindset
 - Pattern recognition
- Improve presentation skills
 - Presenting their data and findings based on basic scientific experiments
- Use real-world examples to demonstrate the role of science in our everyday lives
 - E.g., Electricity, Sustainability & Conservation
- Begin to understand how to explore information that is presented
- Role reversal to test understanding of skills

Topics

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|--------------------------------|-----------------|-------------------|
| • Science as a Human Endeavour | • Environment | • State of Matter |
| • Geology | • Living Things | • Energy |
| • Space | • Ecology | • Light |
| | • Geography | |