

EARTH SCIENCES

This innovative Earth sciences program is designed to deepen STEM learning by exploring the dynamic processes shaping our planet. Through hands-on, inquiry-based activities, students engage with topics like geology, where they investigate rock cycles and tectonic movements, and atmospheric science, examining weather patterns and climate impacts. This program offers an immersive experience, building observation, critical thinking, and problem-solving skills as students discover Earth's interconnected systems.

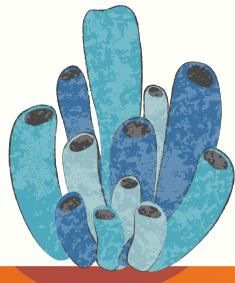


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AGE-ADAPTED LEARNING

PYP

- Rocks and Minerals
- Weather and Seasons
- The Water Cycle
- Earth's Landforms



MYP

- Plate Tectonics and Earth's Structure
- Earthquakes and Volcanoes
- Atmospheric Science
- Oceanography
- Soil formation and Erosion
- Weathering and Deposition



- The Carbon Cycle
- The Nitrogen Cycle
- The Phosphorus Cycle
- Weather Forecasting
- Renewable Energy and Sustainability
- Human Impact on Environment



DP

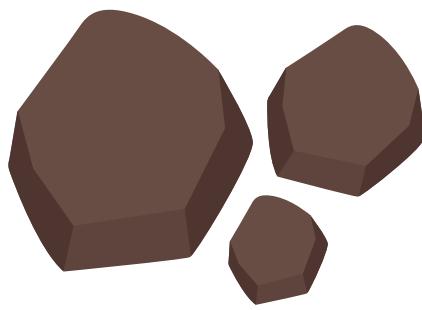
- Advanced Plate Tectonics and Geodynamics
- Minerology and Petrology
- Paleoclimatology
- Hydrogeology and Water Resources
- Geochemistry
- Sedimentology and Stratigraphy



- Seismology
- Isotope Dating
- Geophysical Exploration Methods
- Remote Sensing and GIS
- Natural Hazards and Disaster Management
- Global Climate Change



*Topics are subject to change based on the prerequisites covered by the students



CLASS STRUCTURE

1 DEFINING A PROBLEM

Begin by identifying a specific problem or question you want to address in our study. This step involves clearly articulating what you aim to understand or solve, setting the stage for your learning efforts.



2 UNDERSTANDING CORE CONCEPTS

Build a strong foundation by learning the essential theories, principles, and laws that underpin the problem statement.



3 OBSERVATION AND EXPERIMENTS

Gain proficiency in the various methods used to observe and analyze Earth phenomena. These techniques are vital for acquiring direct evidence and data about Earth's systems and processes.



4 INTERPRETATION AND ANALYSIS

Focus on the analysis and interpretation of data collected through observations or experiments. It is essential to draw meaningful conclusions about the phenomena you are studying, whether it's the behaviour of celestial bodies or the properties of distant galaxies.



5 PROBLEM SOLVING

Focus on the analysis and interpretation of data collected through observations or experiments. It is essential to draw meaningful conclusions about the phenomena you are studying, whether it's the dynamics of Earth's geological processes, the properties of minerals and rocks, or patterns in climate and environmental changes.

