



Shri Shivaji Education Society Amravati's

Science College, Congress Nagar, Nagpur

Department of Geology

Report on the Launch of Earth Explorer: An Interactive Geology Learning Platform

Introduction

Welcome to Earth Explorer, an engaging and innovative educational platform designed to bring the fascinating field of geology to life through interactive games. Developed by the undergraduate students of SSSEA's Science College, Nagpur, Earth Explorer provides a fun-filled way to understand and explore complex geological concepts, making learning accessible and enjoyable. This unique platform is a result of dedicated guidance from Dr. Sarang Dhote, Incharge of the Innovation and Incubation Centre, along with contributions from Mr. Mahesh Phalke, Dr. Pushpa Zamarkar, and Ms. Apurva Fuladi from the Department of Geology.

Features of Earth Explorer

Earth Explorer comprises several unique games, each tailored to introduce and reinforce different aspects of geology:

1. **Geologic - Flying Fruits for Rocks and Minerals:** This game challenges players to identify rocks and minerals by catching the correct answers as they appear on the screen, offering a fun and engaging way to test and expand their knowledge.
2. **Crust Conquest - Air Blast for Crust:** Through an air-blast adventure, players navigate through Earth's crust layers, learning about tectonic plates, formations, and geological processes in a dynamic, hands-on format.
3. **Mineral Minds - Whack a Moles for Ores:** This game combines fast-paced action with geology education, as players "whack" moles to reveal trivia about valuable minerals, deepening their understanding of ores and their significance.
4. **Be-Gneiss Hangman:** A geological spin on the classic hangman game, where players guess geological terms, learning to remember important concepts easily and intuitively.

Objective and Impact

Earth Explorer serves as an interactive gateway for students and enthusiasts to dive into geology in a way that is both educational and entertaining. The platform encourages learners to explore complex topics like rock identification, mineral resources, and tectonic processes through engaging activities. By making difficult concepts more accessible, Earth Explorer aims to deepen interest in earth sciences and broaden students' understanding of geology.

Guidance and Support

Earth Explorer has been meticulously crafted under the guidance of:

- **Dr. Sarang Dhote** – Incharge of the Innovation and Incubation Centre
- **Mr. Mahesh Phalke, Dr. Pushpa Zamarkar, and Ms. Apurva Fuladi** – Department of Geology, SSSEA's Science College

Their expertise and mentorship were pivotal in transforming these games into effective educational tools.

The Team Behind Earth Explorer

This innovative project is brought to life by a talented team of students who designed and developed these games with creativity and enthusiasm:

- Ananya Sulakhe
- Aayesha Jabeen
- Sayali Kamble
- Kshitij Gupta

Each student played a vital role in designing engaging activities that simplify learning for their peers.

From the Students to the Students

Developed under the “From the Students to the Students” scheme, Earth Explorer embodies the spirit of peer-to-peer education, empowering students to actively contribute to each other’s academic journeys. This initiative aligns with UNESCO’s educational goals, particularly in promoting quality education and fostering a lifelong love for learning.

Conclusion

The launch of Earth Explorer marks a significant achievement in making geology education fun, accessible, and interactive. SSSEA's Science College, Nagpur, continues to lead in educational innovation, inspiring students to contribute to academic growth through creativity and collaboration.



