

The primary goal of this curriculum is to introduce grade 3 students to the basic concept of carbon and foster an early appreciation for the environment

Title: "Carbon Quest: Exploring the Marvels of Our Earth"

Objective: The primary goal of this curriculum is to introduce grade 3 students to the basic concept of carbon and foster an early appreciation for the environment. Through inquiry-based activities, hands-on experiments, and collaborative projects, students will embark on a journey to understand the significance of carbon in our world, cultivating a sense of environmental responsibility and stewardship.

Module 1: Carbon in Nature

• Lesson 1: Carbon Tales

- Introduction to carbon through storytelling, highlighting its presence in the natural world.
- Group discussion on familiar objects and processes involving carbon.

• Lesson 2: Carbon Scavenger Hunt

- Outdoor exploration: Students participate in a scavenger hunt to identify and collect items related to carbon.
- Class discussion on the findings and connections to the environment.

Module 2: The Carbon Cycle Adventure

• Lesson 3: The Great Carbon Cycle

- Exploration of the carbon cycle through interactive visuals and diagrams.
- Group activity: Creating a collaborative mural depicting the carbon cycle.

• Lesson 4: Carbon's Journey

- Hands-on experiment: Simulating carbon's journey through the carbon cycle using simple materials.
- Class discussion on the importance of balance in the carbon cycle.

Module 3: Air, Plants, and Carbon Harmony

• Lesson 5: Breathing with Trees

- Understanding the symbiotic relationship between humans, animals, and plants in the context of carbon.
- Planting activity: Creating a class "Carbon Garden" with potted plants.

• Lesson 6: The Oxygen Connection

- Investigating the process of photosynthesis and the exchange of gases.
- Art activity: Creating visual representations of the oxygen-carbon dioxide exchange in leaves.

Module 4: Becoming Environmental Guardians

• Lesson 7: Our Carbon Footprint

- Introduction to the concept of a carbon footprint and its impact on the environment.
- Group discussion on personal and collective actions to reduce carbon footprints.

• Lesson 8: Guardian Pledge

- Collaborative project: Crafting a class pledge to become environmental guardians.
- Presentation of the pledge to parents and the school community.

Assessment:

- Teacher observation during activities and discussions.
- Student participation in collaborative projects.
- Reflective journals on personal experiences and understanding about carbon.

By the end of this curriculum, grade 3 students should have a foundational understanding of carbon, its role in nature, and the importance of responsible environmental practices. The curriculum aims to foster a sense of wonder, curiosity, and commitment to being stewards of the Earth at an early age.

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