

Create an environmental-based curriculum based on carbon for grade 1 students

Title: "Carbon Adventures: Discovering the Wonders of Nature"

Objective: The primary goal of this curriculum is to introduce grade 1 students to the basic concept of carbon and foster an early appreciation for the environment.

Through engaging activities, stories, and simple experiments, students will develop a basic understanding of the importance of carbon in nature.

Module 1: Let's Explore Carbon

- Lesson 1: Introduction to Carbon

- Brief introduction to the concept of carbon.
- Simple examples of where carbon can be found (in the air, trees, animals).
- Fun and interactive games to reinforce the concept.

- Lesson 2: Carbon in Everyday Life

- Storytime: A day in the life of Carbon Bear - a character who explores where carbon is in the environment.
- Show and tell: Students bring in one item each that contains carbon (e.g., a leaf, a wooden toy).

Module 2: The Amazing Carbon Cycle

- Lesson 3: The Carbon Cycle Dance

- Introduction to the carbon cycle through a fun and simple dance activity.
- Basic understanding of how plants, animals, and humans are part of the carbon cycle.

- Lesson 4: Let's Draw the Carbon Cycle

- Creative drawing activity where students illustrate the carbon cycle.
- Displaying the drawings in the classroom to reinforce the concept.

Module 3: Our Green Friends - Plants

- Lesson 5: Plants Need Carbon, Too

- Understanding how plants use carbon dioxide for photosynthesis.
- Hands-on planting activity to grow a small plant in the classroom.

- Lesson 6: Let's be Carbon Heroes

- Craft activity: Creating superhero capes with "Carbon Hero" emblems.
- Discussion on how students can be carbon heroes by helping plants and trees.

Module 4: The Air We Breathe

- Lesson 7: Clean Air, Happy Lungs

- Simple discussion on the importance of clean air for humans and animals.
- Craft activity: Creating "clean air" posters with cotton ball clouds.

- Lesson 8: Fun with Wind and Carbon

- Outdoor activity: Flying kites to understand the movement of air.
- Connecting wind to the dispersion of carbon in the atmosphere.

Assessment:

- Teacher observation during activities.
- Creative assessments such as drawing, storytelling, and craft projects.
- Informal discussions to gauge understanding.

By the end of this curriculum, grade 1 students should have a basic understanding of carbon, its presence in the environment, and the importance of taking care of nature. The emphasis is on fostering curiosity, appreciation, and a sense of responsibility towards the environment.