

## Carbon Chronicles: Eco-Adventures for Grade 4 Explorers

Objective: Prepare for a journey of scientific discovery and environmental excitement as we dive into "Carbon Chronicles"! The mission for our grade 4 adventurers? Unravel the mysteries of carbon and cultivate a deep love for Mother Earth. Through engaging lessons, hands-on activities, and creative projects, this curriculum is designed to introduce you to the captivating world of carbon while nurturing a lifelong appreciation for our environment.

Module 1: Carbon Unleashed • Lesson 1: Carbon 101 - The Elemental Tale ◦ Kick off the adventure with an introduction to the basics of carbon, spiced up with a touch of storytelling. ◦ Group discussion on the role of carbon in everyday life, from the air we breathe to the food we munch.

- Lesson 2: Carbon Detectives on the Case

- Transform into eco-sleuths in a thrilling quest to uncover carbon's hiding spots.
- Interactive scavenger hunt: Discovering carbon-rich items lurking in unexpected places.

Module 2: The Carbon Cycle Expedition • Lesson 3: Journey Through the Carbon Cycle ◦ Embark on a fantastic expedition to trace carbon's epic cycle through nature's wonders. ◦ Engaging board game: "Carbon Quest" – navigate through ecosystems and understand the carbon flow.

- Lesson 4: Carbon Creations - DIY Carbon Cycle Models

- Hands-on crafting adventure: Create imaginative models showcasing the intricate dance of carbon in nature.
- Display and explain: Presenting your masterpieces to fellow explorers.

Module 3: Carbon Creatures - Flora and Fauna Connection • Lesson 5: The Carbon Harmony of Plants and Animals ◦ Dive into the interconnected world of plants and animals, exploring their unique carbon roles. ◦ Planting party: Potting your very own carbon-capturing plant companions.

- Lesson 6: The Carbon Zoo - Animal Adventures

- Investigate how animals play a part in the carbon cycle, from herbivores to decomposers.

- Create a "Carbon Zoo" display featuring quirky facts about carbon-loving critters.

Module 4: Eco-Action Explorers • Lesson 7: Carbon Footprint Challenge ◦ Introduce the concept of a carbon footprint with an interactive challenge. ◦ Team competition: Brainstorm and implement eco-friendly strategies to reduce your carbon footprint.

- Lesson 8: Future Guardians' Pledge

- Conclude the adventure with a collaborative project: Crafting a class pledge to become stewards of the environment.

- Presentation to parents and the school community: Share your commitment and inspire others.

Assessment: • Ongoing observation during activities and discussions. • Participation in hands-on projects and group collaborations. • Creative reflections on personal experiences and understanding of carbon in the provided "Eco-Explorer Journals."

By the end of "Carbon Chronicles," our grade 4 adventurers will emerge with a solid grasp of carbon's secrets and a profound appreciation for the intricate dance of nature. The curriculum aims to instil a sense of wonder, curiosity, and environmental responsibility in each budding eco-explorer.

Copyright 2024 Kim Perrier ©