

Lesson 3 Standards

Science (NGSS - Next Generation Science Standards):

1. **3-ESS3-1 (Earth and Human Activity)** – Ask questions to obtain information about the relationships between human activity and the environment.
2. **4-ESS3-1 (Earth and Human Activity)** – Describe ways in which human activities, such as the restoration of ecosystems, can have positive or negative effects on the environment.
3. **5-ESS3-1 (Earth and Human Activity)** – Describe and explain the effects of environmental changes on ecosystems and the design of solutions to mitigate those effects.
4. **K-ESS3-3 (Earth's Systems)** – Communicate solutions that reduce the impact of human activities on the environment and ecosystems.
5. **3-ESS2-1 (Weather and Climate)** – Represent data in tables and graphical displays to reveal patterns of daily weather and the climate of a region.

Language Arts (Common Core State Standards - CCSS for ELA):

1. **CCSS.ELA-LITERACY.RI.3.1, RI.4.1, RI.5.1** – Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
2. **CCSS.ELA-LITERACY.RI.3.7, RI.4.7, RI.5.7** – Use information gained from illustrations, diagrams, and the words in a text to demonstrate understanding of the text.
3. **CCSS.ELA-LITERACY.SL.3.1, SL.4.1, SL.5.1** – Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3, 4, and 5 topics and texts, building on others' ideas and expressing their own clearly.
4. **CCSS.ELA-LITERACY.W.3.8, W.4.8, W.5.8** – Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work.

Social Emotional Learning (SEL):

1. **Self-awareness and self-management** – This standard involves recognizing and managing one’s emotions, thoughts, and behaviors. It includes skills like managing stress and setting personal goals.
2. **Social awareness** – This involves recognizing and understanding the emotions and perspectives of others.
3. **Responsible decision-making** – This focuses on making ethical, constructive choices about personal and social behavior.
4. **Relationship skills** – This involves the ability to establish and maintain healthy and rewarding relationships with diverse individuals and groups.

Geography and Environmental Stewardship:

1. **Geography and Cartography** – The standard involves understanding the relationship between people and places, using geographic tools and knowledge to interpret and analyze spatial data.
2. **Environmental Stewardship** – This focuses on developing an understanding of how human actions can impact ecosystems and the importance of taking care of the environment for future generations.

Key Concepts Addressed in the Standards:

- **Ecosystems and Resilience** – The lesson focuses on how ecosystems function, including the role of dunes in protecting coastlines, and the challenges ecosystems face due to climate change.
- **Climate Change and Adaptation** – Students will learn about the effects of climate change, including flooding, storm surge, and sea level rise, and explore strategies to enhance resilience.
- **Stewardship and Action** – The concept of stewardship is central to the lesson, encouraging students to reflect on their role in preserving the environment and taking action to protect it.