

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <p><b>Standard:</b></p> <p>2-LS4-1. Use texts, media, or local environments to observe and compare (a) different kinds of living things in an area, and (b) differences in the kinds of living things living in different types of areas.</p> <ul style="list-style-type: none"> <li>• Examples of areas to compare can include temperate forest, desert, tropical rain forest, grassland, arctic, and aquatic.</li> <li>• Specific animal and plant names in specific areas are not expected.</li> </ul> | <p><b>Big Idea:</b></p> <p><b>Each biome has different climate, land, animals and plants.</b></p> |
| <p><b>Point:</b></p> <p><b>What are the plants like at Cape Cod National Seashore?</b></p> <p>Cape Cod is a coastal biome. Because the conditions are different depending on how close you are to the ocean, the plants also differ depending on what region they are in.</p> <p><b>Practice:</b></p> <p><b>Obtain information</b> from text and video</p>                                                                                                                                                |                                                                                                   |
| <p><b>Vocab:</b></p> <p>Review: dune, coastal, ocean, river, pond, hills</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |
| <p><b>Materials:</b></p> <p>For the teacher:</p> <ul style="list-style-type: none"> <li>• <a href="#">Slides</a></li> <li>• <a href="#">Reading</a></li> </ul>                                                                                                                                                                                                                                                                                                                                            |                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Intro to the lesson (1 min)</b></p> <p>Slide 1 - Yesterday, we saw that Cape Cod National Seashore is in the temperate forest, so it has weather like us. It has ocean with sand dunes. And it also has ponds and rivers.</p> <p>Today, we are going to focus on the plants that live right along the ocean beaches because coastal areas have such unique challenges for plants.</p>                                                                                                                                                                                                              |
| <p><b>Reading (14 min)</b></p> <p>See what the plants have in common:</p> <ul style="list-style-type: none"> <li>• Ways to deal with salt: <ul style="list-style-type: none"> <li>○ Keeping it out</li> <li>○ Packaging it within the plant so it doesn't hurt the plants body</li> <li>○ Having a body that isn't hurt by salt</li> </ul> </li> <li>• Low water and low nutrient soil <ul style="list-style-type: none"> <li>○ Large root systems</li> </ul> </li> <li>• Shifting sand <ul style="list-style-type: none"> <li>○ Grow roots in the sand that piles on top of you!</li> </ul> </li> </ul> |

Pitch pines have another set of cool traits that none of these other plants have.

- Survive fire and then send lots of seeds out right after the fire.

**Video (5 min)**

Can you see any of the plants we learned about?

- They will see beach grass and pitch pine
- <https://www.youtube.com/watch?v=EJ5N5UryLgE>

**Guide to the National Parks (10 min)**

You are going to put away your text and then fill in the Environment part of the Guide for National Parks. Remember to put the highlights that would make someone want to visit the rainforest in Cape Cod and also warn them about anything they should know.

- 3 minutes before the end, bring up student work to make a list of all the things that they should have written. Make sure they update their work after that.