

LOUISIANA SCIENCE STANDARDS THAT ARE INTRODUCED OR REINFORCED DURING TREES AND TRAILS FIELD TRIPS

2ND Grade

ECOSYSTEMS: INTERACTIONS, ENERGY, AND DYNAMICS

- **2-LS2-1:** Plan and conduct an investigation to determine if plants need sunlight and water to grow.
LE.LS2A.a: Plants depend on water and light to grow.
- **2-LS2-2:** Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.
LE.LS2A.b: Plants may depend on animals for pollination or to move their seeds around.

BIOLOGICAL EVOLUTION: UNITY AND DIVERSITY

- **2-LS4-1:** Make observations of plants and animals to compare the diversity of life in different habitats.
LE.LS4D.a: There are many living things in any area, and they exist in different places on land, in water, and in air.

EARTH'S SYSTEMS

- **2-ESS2-1:** Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.
LE.ESS2A.a: Wind and water can change the shape of the land.

ANCHOR PHENOMENA THAT CAN BE INTRODUCED IN THE CLASSROOM (PRE-TRIP OPTIONS):

1. This link shows the life cycle of a tree and how seeds are dispersed.
<https://www.bing.com/videos/search?q=video+on+seed+dispersal&view=detail&mid=CE94D3E2ADC4F6704B32CE94D3E2ADC4F6704B32&FORM=VIRE>
2. This link has activities on seed dispersal.
<https://betterlesson.com/lesson/637580/spreading-seeds-around-the-forest>
3. Looking at the images below-What is the advantage of warning coloration in organisms?



4. Earthworms are the “intestines of the soil.”
5. Bees, butterflies, moths, and beetles have specialized mouth parts.
6. Halloween without pumpkins? Thanksgiving without cranberries? Some populations of pollinators like bees are declining.
7. Trees are plants and many of them have flowers.
8. Planting trees can help reduce erosion.
9. Some animals use plants for shelter.
10. Wetlands act like natural sponges providing flood protection.

Activities to Extend Conceptual Understanding of Performance Expectations

1. Link with information on bees and other pollinators.
<https://pollinatorlive.pwnet.org/teacher/info.php>
2. This is a great link for students to investigate the different pollinators in nature. <https://www.fs.fed.us/wildflowers/pollinators/animals/index.shtml>
3. Get the brochure: *The Simple Truth: We Can't Live Without Them!* (PDF, 1.0 MB)
https://www.fs.fed.us/wildflowers/pollinators/Monarch_Butterfly/index.shtml
4. Link to a word search.
<https://www.fs.fed.us/wildflowers/kids/wordsearch/documents/puzzles/pollinators.pdf>
5. Link to a word search.
<https://www.fs.fed.us/wildflowers/kids/wordsearch/documents/puzzles/food.pdf>
6. Link to make a pollinator garden.
<https://www.fs.fed.us/wildflowers/pollinators/gardening.shtml>
7. Video on hummingbirds.
<http://www.pbs.org/wnet/nature/super-hummingbirds-full-episode/14586/>
8. Hands-on Activity: Light Plants and Dark Plants, Wet Plants and Dry Ones
https://www.teachengineering.org/activities/view/duk_sunflower_mary_act

