

3rd Grade: Habitats and Species

Lesson 1: Water in Nature

Lesson Plan

Lesson Title:	Water in Nature
Grade Level:	3
Learning Experience Description	Students identify different patterns of water in nature, and use natural materials to observe how water interacts with nature. This lesson involves getting the students outdoors.
Prior Learning Needed:	None
Time:	Part A: 20 minutes ; Part B: 20 minutes

Standards

ELA/Literacy:

W.3.7 Conduct short research projects that build knowledge about a topic.

W.3.8 Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.

<u>Science:</u>

3-ESS3-1 (Foundational): Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.

2-ESS2-3 (Extended from G2): Obtain information to identify where water is found on Earth and that it can be solid or liquid.

Crosscutting Concepts:

Patterns: Similarities and differences in patterns can be used to sort and classify natural phenomena.

<u>CA Environmental Principles and Concepts:</u> Principle 1: People depend on Natural Systems **Concept A.** The goods produced by natural systems are essential to human life and to the functioning of our economies and cultures.

Success Skills:

The checked success skills below are present in this lesson:

- \star Communication
- \star Collaboration
- ★ Creativity
- \star Critical Thinking

Essential Question	What is the effect of rain or water on natural materials?
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Learning Progression	Expand from 2nd grade learning (where is water found on earth?) and use this lesson to set up Lesson 2 - how water moves through a watershed.
Learning Intentions "I am learning"	I am learning that water is everywhere, and water interacts with objects/nature in different ways.
Success Criteria "I can"	I can observe what happens when rain (water) falls on objects in nature.
Academic Vocabulary	Natural Materials Natural Resource Repel Absorb
Classroom Management Needs	 Awareness of student safety during activities (ie: scissors if using hard copies for each student) Grouping students for collaboration Setting boundaries when running investigation outside
Materials/ Innovation Lab Use	 Slide Deck Sort It Out! Activity Sheet / Slides in slide deck Scissors (don't need if using activity in Slide deck instead of hard copies) Water dropper *This lesson does not require iInnovate Lab use

Learning Experience Design Plan		
Focused Instruction Modeling, stated learning intentions	On slide 2, the focus question is stated: "What is the effect of rain on natural materials?"	
Guided instruction Prompts, Cues, Questioning	Part A: Sort It Out! ActivityThis activity was created to activate students' thinking in terms of recognizing and grouping patterns. Students will cut out each square and can sort in a myriad of ways. You can show the worksheet on screen if students do not have the worksheet printed (A google form may be provided). Questions framed for this activity sheet include: 	
Collaborative learning Student to student structures, 50% instructional time, Accountability	 Part A: Once students have gone through a few rounds of sorting, have students share with the group or a peer why they sorted their images the way they did. Some additional questions to ask at the end of this activity could be: Which pictures have flowing water? Where do you think the water is going? What animals do you think live in these different places? Do you notice different phases of water? Where else do you think water might be in these pictures that isn't so obvious? Why did you choose to put those specific objects in a group? What do all of the objects in your group have in common? 	

	 Can you make any connections between any of the objects and your home/habitat?
Independent Learning Practice, Apply, Transfer	Part A: Students can regroup the images a second time after gaining new ideas from their peers and try to see different patterns in the images.
	Part B: Students make their own observations when testing water droplets in nature.
Check for Understanding Formal, informal structures	Part A: The following slides will provide examples of how they may have grouped their images, and the patterns they come up with will demonstrate understanding.
	Part A ends with a review of what was discussed during that session, and part B will review again what was discussed in part A.
	Part B: vocabulary review
Assessment Rubrics, Products, Projects, Presentations self-assessments	PBL Works Rubrics: <u>Collaboration</u> <u>Creativity</u> <u>Critical Thinking</u>
Closure Exit tickets, feedback for next lesson	Students should have an idea of where water is found in their surroundings, and that some items absorb water and some repel. This will help guide their thinking in the next lesson - Water Moving in a Watershed.