1st Century Themes/Skills:				Differentiated Activities			
DCI (Disciplinary Core Ideas)	Science and Engineering Practices	Crosscutting Concepts	Student Learning Objectives	(Consider the 5 Es)	Resources/Technology	Formative Assessments	Benchmark Assessment
ESS2.C: The Roles of Water in Earth's Surface Processes - Nearly all of Earth's available water is in the ocean. Most fresh water is in glaciers or underground; only a tiny fraction is in streams, lakes, wetlands, and the atmosphere. (5-ESS2-2)	Using Mathematics and Computational Thinking • Describe and graph quantities such as area and volume to address scientific questions. (5-ESS2- 2)	Scale, Proportion, and Quantity • Standard units are used to measure and describe physical quantities such as weight and volume. (5-ESS2-2)	Explain how the Earth's water is used in different ways.	Learn about the different uses of Earth's waters	https://app.discoverveducation. com/techbook/concept/conceptGuid/E0 BBA4506-6550-43EE-87EF- 259BB371A27C/unitGuid/0A219A05- DD50-4D29-BZEB- 34F5501J4253#tab=model-lesson- tab&page=1&subTab=session1		
			Understand the difference between fresh water and salt water. Students will understand that sea water is	Students explore resources about the formation and uses of fresh water bodies such as rivers and lakes. They carry out the Hands-On Lab, Earth's Available Water.	https://apn.discoveryeducation.com/techbook/consept/Guid/F0BBA 360-6550-4513-37EF- 259BB371A27C/unitfuid/0A219A05- DD50-4129-B2EB- 34F550143C53#/fab=model-lesson- tab&page=1&subTab=lesson-overview		
			salty and has a different chemical makeup from fresh water, by following scientific procedure and retelling through illustrations.	Ask them to describe in words the difference between salt and fresh water, then conduct experiment.	http://www.intrepidmuseum. org/getdoc/0f1deeb5-c137-4a22-8d0c- c0e77616dadb/freshwater-vs-saltwater.aspx		
SS2.C: The Roles of Water in arth's Surface Processes • Nearly 1 of Earth's available water is in the cean. Most fresh water is in glaciers runderground; only a finy fraction in streams, lakes, wetlands, and the mosphere. (5-ESS2-2)	Computational Thinking • Describe and graph quantities such as area and	and describe physical quantities such	Students learn about salt water and fresh water. They recognize water sources and use mathematical tolls to discover that fresh water supplies are limited.		http://www.ewee, ca/content/documents/Teachers/Salty% 20or%20Fresh.pdf		
			Discover that oceans influence the surrounding climates.	Water responds differently to temperature changes than land does. Test two environments, one that is located near water and one that is not.	waters-effect-on-the-environment-lab (activity folder)		
ESS3.C: Human Impacts on Earth Systems - Human activities in agriculture, industry, and endinger effects on the land, vegetation, streams, ocean, air, and even outer even outer and expace. But individuals and doing things to help protect Earth's resources and environments. (5-ESS3-1)	Obtaining, Evaluating, and Communicating Information Obtain and combine information from books and/or other and obtain and continue and obtain a design problem. (5- ESS3-1)	Systems and System Models • A system can be described in terms of its components and their interactions. (5-ESS3-1)	Gather information about the ways in which humans affect the environment.	Engage: show each diagram and ask what the difference is between the two environments.	Abundant Trees PDF (activity folder) Few Trees PDF (activity folder)		
			Gather information about the ways in which humans affect the environment.	Explore how humans can contribute to stormwater.	https://www.scdhec. gov/HomeAndEnvironment/Docs/UtahS tormwaterActivityBook.pdf		
			Gather information about the ways in which humans affect the environment.	Explain how humans contribute to water pollution. (variety of activities on website)	http://www.stormwater.ucf. edu/toolkit/vol3/Contents/pdfs/Student %20Activities/student_activities.pdf		
			Explore the impact of water pollution and observe how water is filtered in nature. You will investigate the different sources of water pollution and examine the challenges of protecting Earth's water supply.	Explore what factors impact water quality and where does water pollution come from?	Water Pollution Lab (activities folder)		
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