Big Idea: Where do we find water?

Guiding Questions: How can we identify where water is found on Earth and if it is solid or liquid? In what ways can you represent the shapes and kinds of land and bodies of water in an area?

21st Century Themes/Skills:											
DCI (Disciplinary Core Ideas)	Science and Engineering Practices	Cross Cutting Concepts	Student Learning Objectives	Differentiated Activities (Consider the 5 Es)	Resources/Technology	Formative Assessments	Benchmark Assessment				
ESSEC: The Kord Number of Valer In Earth's Surface Processes • Water is found in the ocean, rivers, lakes, and ponds. Water exists as solid ice and in liquid form. (2-ESS2-3) ESS2.18: Plate Tectonics and Large-Scale System Interactions Maps show where things are located. One can map the shapes and kinds of land and water in any area. (2-ESS2-2)	Ordenming, Londong, and Communicating Information - Optain information using various texts, text features (e.g., headings, tables of contents, glosarise, electronic menus, licons), and other media that will be useful in answering a scientific question (2-ESS2-3) Developing and Using Models - Develop a model to represent patterns in the natural world. (2- ESS2-2)	raterins in the natural world can be observed. (2-ESS2-2).(2- ESS2-3)	Statents who unsertainth the concepts are able to: • Observe patterns in the natural world. • Obtain information using various texts, text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) and other media that will be useful in answering a scientific question. Obtain information to identify where water is found on Earth and to communicate that it can be a solid or liquid.	 Involve Lesson questions. How do maps show things in the real world? How are maps like the real world, and how are they different? What patterns in the real world, and how are they different? What patterns in the real world can maps show? Why can a map also be called a models by showing the video segment Small Models. Write the world "model" on the board. Explain that a model can be used to show things that are too diffecult for us to observe, such as really large things or really small things. A model is similar to the real-world object. EXPLORE 1: Display all Lesson Questions on the board or chart paper. Keep them posted and visible throughout the entire lesson. See the Teacher Note below about introducing Scientific Explanations to students at this level. Introduce students to the Scientific Explanation: Mapping Land and Water Student Sheet. Guide students the the scientific Explanation: Mapping Land and Water Student Sheet. Guide students to think about what they already know about each Lesson Question, and have them record their existing ideas in the Prior Knowledge section of the respective form. EXPLORE 2: Write these glossary terms on chart paper. As yon and your students comeros. Note: relevant terms during this lesson, add them to this list. Ask students to pair up and talk about their understanding of both of these glossary terms with their partner. Have students complete a Vocabulary Chart for each term. Alternatively, have students write the term and a definition with example in their science netwoorks. EXPLORE 3: HAVE Students show a map can be considered a model. See Teacher Notes 4 and 5 below. EXPLORE 3: EXPLORE 3: EXPLORE 4: Mare students oraplete a Vocabulary Chart for each term. Alternatively, have students ore	Video Segment: Lost and Found Video Segment: Cartographer	Assessment items.					
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					Video Segment: Map Adventures in					
					<u>ine Park</u>					
					Video Segment: Example 3: Activity List					
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