

Focus Questions Grade Five

Land and Water (STC)

Lesson 1: *Thinking about Land and Water*

What do you think you know about land and water?

Lesson 2: *The Water Cycle: Modeling Land and Water*

Where are all the places water can be on our planet and in your model? How does water change in order to do this?

Lesson 3: *Modeling Rain on Land*

What happens to land as it rains and where does the rain go?

Lesson 4: *Investigating Streams*

How does a flowing stream change the land?

Lesson 5: *Examining Earth Materials*

What are the properties of each type of soil and how do they behave in water?

Lesson 6: *Where Does the Water Go? Looking at Ground Water and Runoff*

What causes different types of soil to hold different amounts of water?

Lesson 7: *Where Does the Soil Go? Looking at Erosion and Deposition*

How does the speed of the water affect the amount of soil that is worn away (eroded) and the amount of soil that is dropped off (deposited)?

Lesson 8: *Bird's-Eye View: Looking at the Parts of a Stream*

What are the similarities and differences of the model streams? What are the common parts of all stream systems?

Lesson 9: *When Streams Join: Modeling Tributaries*

What patterns do you notice when several streams flow over the land?

Lesson 10: *Rushing Rivers: Exploring Flow*

How does greater water flow affect the amount of erosion and deposition? What is the evidence from your model that supports your thinking?

Land and Water Focus Questions (Continued)

Lesson 11: *Hills and Rocks: How Nature Changes the Direction and Flow of Water*
How do landforms affect the direction and flow of water?

Lesson 12: *Dams: How Humans Change the Direction and Flow of Water*
How do dams affect streams and rivers?

Lesson 13: *Exploring Slope*
How does sloped land affect the flow of water and the amount of soil that is eroded and deposited downstream?

Lesson 14: *Plants: Protecting Sloped Land from Erosion*
How does vegetation on sloped land affect the flow of water and the amount of soil that is eroded and deposited downstream?

Lesson 15: *Planning Our Homesites: Designing and Building a Landscape*
Where do you predict the water will flow in your landscape? Support your thinking with evidence from past investigations.

Lesson 16: *Protecting Our Homesites: Testing the Interactions of Land and Water*
If you were to build your landscape and place your homesites again, what would you do differently? Why?