

# Student Journal



Name \_\_\_\_\_

Date \_\_\_\_\_

## Worksheet 1.2: Earth System Sciences

Write a summary, in first person, about your journey as a water molecule through the hydrological cycle. In your narrative, describe any reservoirs you stayed at or any pathways that you took along the way. In what state of matter (ice, water or vapor) did you spend the majority of your time? Did you carry along any other particles with you on your journey? If so, what? Please mention anything else interesting or unusual about your journey.

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This activity modeled the water cycle. Make a statement about how and why models can be useful in the scientific process. What are the drawbacks of models?

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Explain what you think is meant by the statement, “The earth is a closed, dynamic system.”

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Geosciences are sciences (i.e. physics, chemistry, and geology) that are used in a variety of fields (oceanography, atmospheric science, etc.) to research and study the earth and its processes. Give some examples of geoscience research by answering two questions... What part or process of the earth are you studying? What science are you using to do it? (If you don't know the actual name of a career/job then make up your own.)

Example Geochemist - Might use chemistry to study the chemical composition of rocks.

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## CHALLENGE ACTIVITIES: (Optional)

1. Create a game similar to the “Water Wonders” activity. In your game, create stations and “what happened to you strips” for a different cycle. For instance, move carbon, nitrogen, nutrients, etc. through their cycle.

Use the space below for your own ideas, questions, diagrams, thoughts, etc. that you have before, during or after this lesson.