**Name: Advisory: RIC PC CU 6/1/16**

**Investigation 7 Technology Water Cycle**

**Do Now:** Take out your homework article from last night. Use the article to answer the questions below. Pass your think question answers to the front of the room.

1) Why is Earth referred to as “The Water Planet?”

2) Where does the most water we can easily use come from?

3) What are some ways you can cut back on how much water you use daily?

4) If the Earth’s population grows as predicted, what impact might that increase have on freshwater resources?

5) Is all of the water on Earth evenly distributed? Use an example to support your answer.

6) What effect can Global Warming have on evaporation?

--------------------------------------------------------------------------------------------------------

**Objective:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Engage:** In the space below, illustrate or explain the water cycle.

**Explore:** With the assistance of technology, today you are going to imagine that you are a water particle. You are about to enter the water cycle. To access the simulation, follow the steps below. Each water particle (scholar) will follow a different path in the water cycle, so you will begin and end at different locations. Log your information into the chart below. You will play the simulation 10 turns to complete the chart, before moving on. Open internet browser. Access the website below. Fill in the information as you go. Write down your location and the action for each spin.

* + - 1. Bit.ly/H2Ocy

|  |  |  |
| --- | --- | --- |
| ***Spin #*** | ***Location*** | ***Action (What happened?)*** |
| *Example* | *Glacier* | *Ice stays frozen in glacier. (nothing)* |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |
| **6** |  |  |
| **7** |  |  |
| **8** |  |  |
| **9** |  |  |
| **10** |  |  |

**Explain:** Once you have completed all 10 turns of the water cycle simulation, click Global Warming at the bottom of the simulation and record your observations in the space below. Spin 5 times, recording your results each time below, before answering the questions.

|  |  |  |
| --- | --- | --- |
| **Turn #** | **Location** | **Action** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |

1) Compare and contrast the two simulations

**Elaborate:** Ms. B will be passing out a notebook sheet. On your notebook sheet, place an **X** at your starting location. Transcribe your water particle locations onto the notebook sheet. Then starting with the X, connect the numbers 1 through 10 to your ending location, then answer the question below.

**How is what you learned from simulating the water-cycle different from the “classic” water cycle?**