Earth's Water Scavenger Hunt

Levels

III-IV

Grades 5-8

Overview:

Students identify key information about Earth's water by navigating the *Global Climate* DVD and searching for answers to water related questions.

Objectives:

The student will:

- interact with the *Global Climate* DVD;
- complete a diagram of the water cycle; and
- answer fill-in-the-blank and short-answer questions about Earth's water.

Materials:

- *Global Climate* DVD
- STUDENT WORKSHEET: "Earth's Water Scavenger Hunt"

GLEs Addressed:

[6] SB1.1 The student demonstrates understanding of the structure and properties of matter by using models to represent matter as it changes from one state to another.

[6] SD1.2 The student demonstrates an understanding of geochemical cycles by identifying the physical properties of water within the stages of the water cycle.

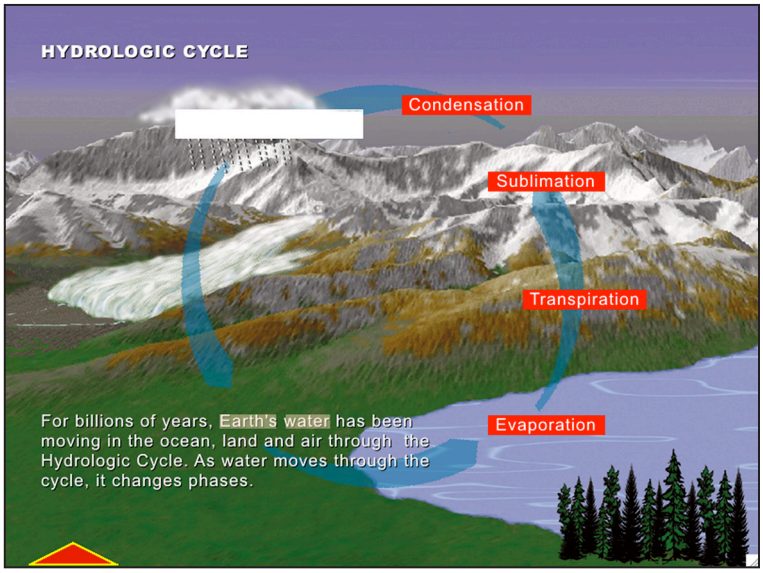
[7] SD3.2 The student demonstrates an understanding of cycles influenced by energy from the sun and by Earth's position and motion in our solar system by recognizing the relationship between phase changes (i.e., sublimation, condensation, evaporation) and energy transfer.

Activity Procedure:

Distribute the *Global Climate* DVD and the STUDENT WORKSHEET: "Earth's Water Scavenger Hunt." Ask students to complete the worksheet by navigating through the DVD.

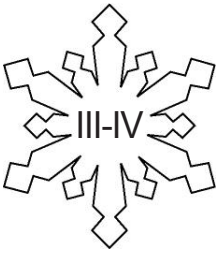
Answers:

1. *liquid, solid and vapor*
2. *see diagram at right*
3. *sublimation*
4. *condensation*
5. *temperature*
6. *faster, slower*



Name:_____

Levels



Student Worksheet

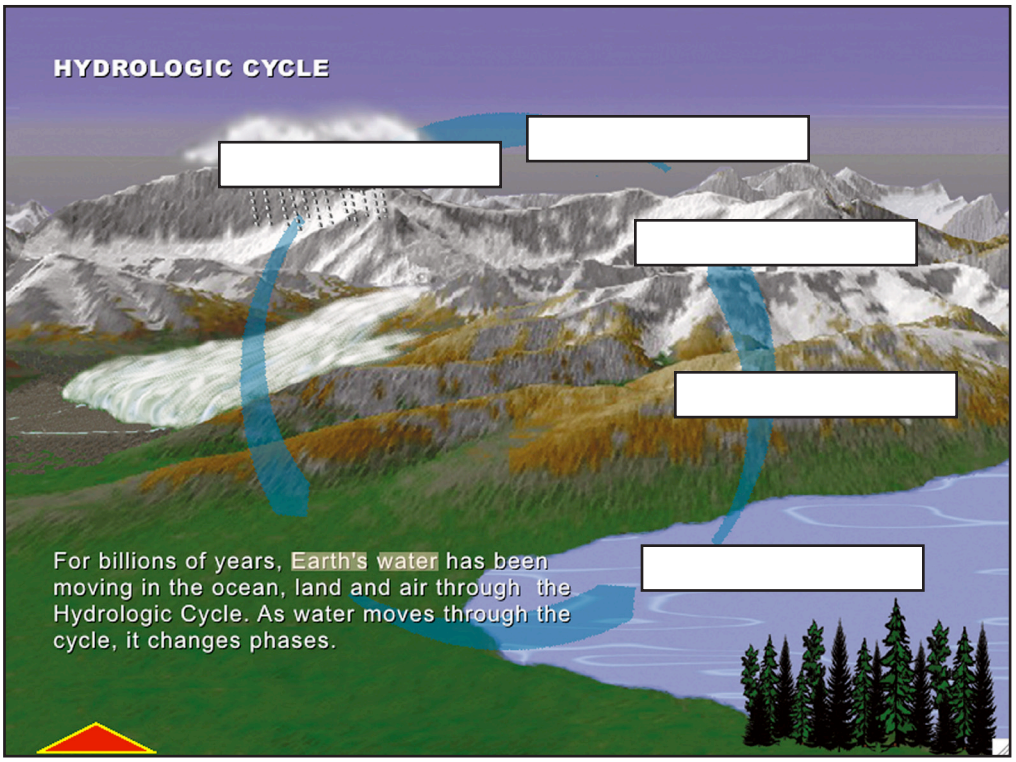
Earth's Water Scavenger Hunt

Directions: Use the "Earth's Water" unit on the *Global Climate* DVD to find the answers to the questions below.

1. What are the three phases of water?

   _____, _____, and _____.

2. Label the diagram below with the five stages of the hydrologic cycle.



3. _____ occurs when solid ice skips the liquid phase and changes directly into water vapor.

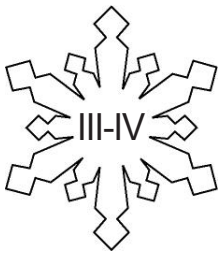
4. _____ occurs when water vapor becomes a liquid as a result of a drop in temperature.

5. Water changes into different phases when the _____ rises or falls.

6. Water molecules move at a _____ speed at higher temperatures and at a _____ speed at lower temperatures.

Name:_____

Levels



Student Worksheet
Anticipation Guide

Directions: Label each set of words as same or different. Be prepared to discuss and defend your answers.

Example:

sun	same	star
weather	different	climate

1. snow	_____	precipitation
2. cloud	_____	cirrus
3. lightning	_____	thunderstorm
4. hurricane	_____	typhoon
5. tornado	_____	water spout
6. wind	_____	jet stream
7. mesosphere	_____	troposphere
8. stratosphere	_____	atmosphere