

Hydrologic Cycle Scavenger Hunt _____

Levels



Grades 5-8

Overview:

During this activity, students will use the Global Climate DVD to help them learn about the hydrologic (water) cycle.

Objectives:

The student will use information technology skills to learn about the hydrologic cycle by interacting with the Global Climate DVD.

GLEs Addressed:

Science

- [5-8]SA1.1 The student demonstrates an understanding of the processes of science by asking questions, predicting, observing, describing, measuring, classifying, making generalizations, inferring, and communicating.
- [6] SB3.1 The student demonstrates an understanding of the interactions between matter and energy and the effects of these interactions on systems by recognizing that most substances can exist as a solid, liquid, or gas depending on temperature.
- [7] SB3.1 The student demonstrates an understanding of the interactions between matter and energy and the effects of these interactions on systems by recognizing that most substances can exist as a solid, liquid, or gas depending on the motion of their particles.
- [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.

Materials:

- Global Climate Change CD-ROM
- Computer
- STUDENT WORKSHEET: "Hydrologic Cycle Scavenger Hunt"

Activity Procedure:

Distribute the STUDENT WORKSHEET: "Hydrologic Cycle Scavenger Hunt" and ask students to research the answers to the worksheet questions by navigating the Global Climate DVD.

Answers to Student Worksheet:

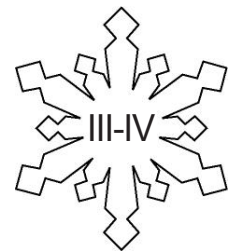
- | | | |
|-------------------------------|------------------|-------------------|
| 1. True | 6. liquid | 11. transpiration |
| 2. solid (ice), liquid, vapor | 7. evaporation | 12. sublimation |
| 3. energy | 8. melting | 13. precipitation |
| 4. vapor | 9. freezing | |
| 5. solid | 10. condensation | |

Name: _____

Hydrologic Cycle Scavenger Hunt

Student Worksheet

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Directions: Find answers to the questions by navigating the Global Climate DVD.

1. True or False: Earth is the only planet in the solar system where water can exist in three phases at once.
2. What are the three phases of water? 1. _____
2. _____
3. _____
3. Fill in the blank: The amount of _____ in water determines its phase.
4. In what phase do water molecules move fast and sometimes collide? _____
5. In what phase do water molecules move slowly and line up? _____
6. In what phase do water molecules move freely past each other at medium speed? _____
7. What process takes place when the sun warms the surface of a large body of water, causing the water to become vapor? _____
8. What process takes place when ice becomes liquid water? _____
9. What process takes place when liquid water becomes ice? _____
10. What process takes place when water vapor molecules in the atmosphere stick to tiny particles floating in the air, and become a liquid? _____
11. What process takes place when water trapped underground is added to the atmosphere as vapor, released through the leaves of plants? _____
12. What process takes place when solid ice changes directly into water vapor? _____
13. What process takes place when cloud droplets become too large to float in the air, so they fall as rain or snow? _____