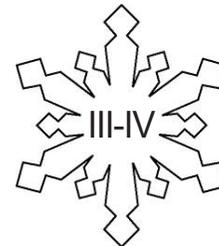


# Hydrologic Cycle Scavenger Hunt \_\_\_\_\_

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:

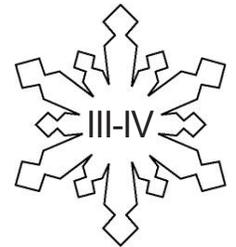
- |                               |                  |                   |
|-------------------------------|------------------|-------------------|
| 1. True                       | 6. liquid        | 11. transpiration |
| 2. solid (ice), liquid, vapor | 7. evaporation   | 12. sublimation   |
| 3. energy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

Name: \_\_\_\_\_

# Hydrologic Cycle Scavenger Hunt

## Student Worksheet

Levels



**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? \_\_\_\_\_