# The Water Cycle



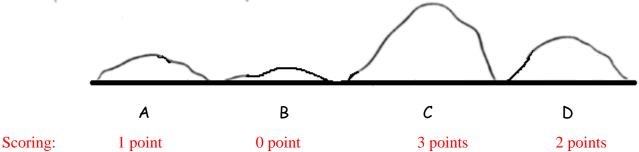
## Water Assessment

Name:			
Date:			









2. a. How does water change the hill as it runs down?

#### Scoring:

Causes soil to wear away and be put in different/new locations: <u>3 points</u> Does not include either 'wear away' OR 'put in new locations': <u>2 points</u> Indicates that water does not affect the Earth: <u>1 point</u>

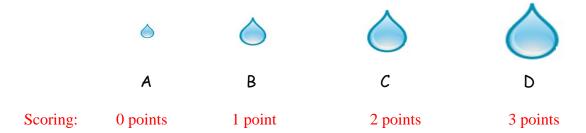
No answer: <u>0 points</u>

b. Why does water change the hill as it runs down?

#### Answer:

The steeper slope makes it easier for gravity to work. Also, bigger water droplets have more area so there is less resistance and gravity can work easier.

3. Which raindrop would flow down a hill slowest? Circle your answer.



4. What force causes water to move down a hill? Circle your answer.

### Scoring:

A. Gravity A = 3 points B. Air B = 2 points C. Temperature C = 1 point D. None C = 1 points







Ice changes to water
Water changes to ice
Water vapor changes to liquid water
Liquid water changes to water vapor

Scoring:

Mark all four choices: <u>3 points</u> Mark two but not those that go in

two directions: 2 points

Mark only one (any one): 1 point

Mark none: <u>0 points</u>

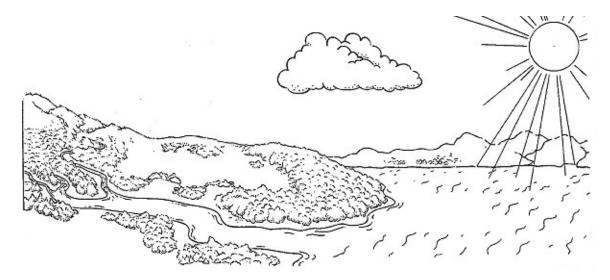
6. As the temperature increases what happens to water? Circle your answer.

b. Water vapor changes to liquid water B = 2 points

c. Liquid water changes to water vapor C = 3 points

d. Water changes to ice D = 1 point

7. In the picture below, label all the places where **evaporation** occurs with an **E** and all the places **condensation** occurs with a **C**.









Scoring:

Marking several areas on the drawing: <u>3 points</u>

Marking only over the large body of water AND cloud: 2 points

Marking only the cloud OR large body of water: 1 point

No indication: 0 points

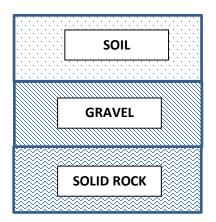
8. a. How does temperature change water in the water cycle?

Answer: Heat energy causes small parts of water to move to the air (water vapor).

b. Why does temperature change water in the water cycle?

Answer: Heat energy causes small parts of water to move to the air (water vapor). The more heat energy that is on the water, the faster this happens.

a. Place a one next to the Earth material where water would move through the fastest, place a two next to the Earth material where water would move more slowly and place a three next to the Earth material where water would not move through.



#### Answers:

- 2 = Water moves slowly through soil
- 1 = Water moves fastest through gravel
- 3 = Water would not move through solid rock

b. Why does water move differently through these three Earth materials?

Answer: Gravity pulls water down through Earth materials. But water moves at different speeds through Earth materials because soil is made of tiny particles and gravel is larger particles with spaces so water can move faster.







- 9. What force causes water to move down a hill? Circle your answer.
  - A. Air 2 points
  - B. Temperature 1 point
  - C. Gravity 3 points
  - D. None -0 points
- 10. a. What Earth material would Iowa farmers want to plant their corn?

Answer: Soil

b. Why would Iowa farmers want to plant corn in this Earth material?

Answer: Because it drains water slowly so water will remain in the soil between rain storms or watering.

11. Order the Earth materials from one to four. Give a **one** to the Earth material with the **MOST** space between the particles, a **two** with the material with a little less space, a **three** with even more less space and a four with the **LEAST** space between the particles.

1 Gravel

\_\_\_\_2\_\_Sand

\_\_\_\_3\_\_Soil

\_\_\_\_4\_\_Solid Rock





