

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## What Is Happening to Our Water?

### *Directions*

Please read the excerpt below and use your knowledge of the water cycle to make predictions about the effects of climate change on the water cycle.

The water cycle is a delicate balance of precipitation, evaporation, and all of the steps in between. Warmer temperatures increase the rate of evaporation of water into the atmosphere, in effect increasing the atmosphere's capacity to "hold" water.

Increased evaporation may dry out some areas and fall as excess precipitation on other areas. Over the past 50 years, the amount of rain falling during the most intense 1% of storms increased by almost 20%.

Warming winter temperatures cause more precipitation to fall as rain rather than snow. Furthermore, rising temperatures cause snow to begin melting earlier in the year. This alters the timing of streamflow in rivers that have their sources in mountainous areas.

Excerpted from: EPA - Climate Impacts on Water Resources  
[www.epa.gov/climatechange/impacts-adaptation/water.html#watercycles](http://www.epa.gov/climatechange/impacts-adaptation/water.html#watercycles)

### *Predictions*

Using the excerpt above and your knowledge of the water cycle and processes like evaporation, what do you think some of the effects of climate change are on the water cycle?