

Name: _____ Summative Date: _____

Unit I

Chapter 2 Lesson 1

Study Guide

Vocab:

1. **Weather:** the short-term state of the atmosphere, including temperature, humidity, precipitation, wind, and visibility
2. **Humidity:** the amount of water vapor in the air
3. **Relative humidity:** the ratio of the amount of water vapor in the air to the maximum amount of water vapor the air can hold at a set temperature
4. **Condensation:** the change of state from gas to liquid
5. **Cloud:** a collection of small water droplets or ice crystals suspended in the air, which forms when the air is cooled and condensation occurs
6. **Precipitation:** any form of water that falls to the Earth's surface from the clouds

Things to Know:

1. In the water cycle, runoff carries water from precipitation to the oceans.
2. When air reaches its dew point, relative humidity is 100%.
3. Clouds are made of water vapor.
 - a. **Nimbostratus** clouds bring rainy weather.
 - b. **Altostratus** clouds are puffy clouds in a middle altitude.
 - c. **Cumulonimbus** clouds extend from low to high altitudes and bring thunderstorms.
 - d. **Cirrostratus** clouds are layered clouds made of ice crystals.
 - e. **Cumulus** clouds are puffy white clouds with a flat bottom.
4. **Rain** is the most common form of precipitation.
5. **Sleet** starts off as rain and freezes.
6. **Hail** is made of balls of ice that may be sent up into the clouds many times.
7. **Snow** is water vapor that changes to a solid.
8. Temperatures increases air's ability to hold water vapor.
9. Condensation is the part in the water cycle where clouds form.
10. If an air mass is cooled and the amount of humidity in the air mass stays the same, the relative humidity increases.
11. **Fog** forms when cool night temperatures cause water vapor to condense, forming clouds (fog). Rising temperatures during the day make for evaporate.
12. **Hail** forms when raindrops are carried to the tops of clouds by updrafts. The raindrops freeze and become hail. The hail grows larger as it is repeatedly covered with layers of freezing water.