

Name _____ Date _____ Period _____ Page _____

Changing State - Condensation Notes Sheet

Question to investigate: _____

Key Concepts:

- ❖ Condensation is the process in which molecules of a gas _____, _____, and form a _____.
- ❖ When gas molecules transfer their energy to something cooler, _____ and their attractions cause them to bond to become a _____.
- ❖ Making water vapor colder _____ the rate of condensation.
- ❖ Increasing the _____ increases the rate of condensation

Changing State - Condensation.... Processing

EXPLANATIONS:

Explain, on the molecular level, how **extra cooling** affects the rate of condensation (2nd experiment). You may draw a picture or answer in words.

Fogging up a cold window

When you breathe out, there is water vapor in your breath. When you breathe on a cold window in the winter, the window gets tiny droplets of moisture on it or “fogs up”. What happens to the molecules of water vapor as they get near the cold window?

Warm breath in cold air

When you breathe out in the winter, you see “smoke”, which is really a fog of tiny droplets of liquid water. What happens to the molecules of water vapor from your breath when they hit the cold air?

Water Cycle:

Use color in the picture to show where evaporation and condensation happen in the water cycle.

