

Name _____

Date _____

HOME/SCHOOL CONNECTION

Experimenting With Water

Water exists on Earth in three states (phases): **solid, liquid** and **gas**.

Third grade scientists should be able to know what can happen when the temperature of water is changed (heated or cooled).

1. What is it called when solid water (ice) becomes liquid water?

2. What is it called when liquid water becomes solid water (ice)?

3. What is it called when liquid water becomes water gas (vapor)?

4. What is it called when water gas (vapor) becomes liquid water?

5. *What do you think* – when water changes state (solid to liquid, liquid to gas, liquid to solid, etc.), is that a **reversible** or **irreversible** change? Can it go back to the way it was or not? Why do you think so?

Look on the back to do some science!!!

With the help of an adult, conduct an experiment that tests the effect of temperature change on water.

Some examples include:

- *How does the volume of water change when it is frozen?*
- *How does the mass of water change when it melts?*
- *How quickly can you make water evaporate?*
- *How quickly can you get water vapor to condense into liquid?*

1. What is your question?
2. What is your prediction?
3. What data did you collect? (Hint: create a data table)
4. What is your claim (answer to your question) and what evidence do you have to support it?
5. What else involving water are you curious about?
6. On a separate sheet, write (or type) a letter to Mr. Kearney about how you explored your question. Be sure to include the five parts of a letter (**heading, greeting, body, closing, signature**)!