

Name: _____

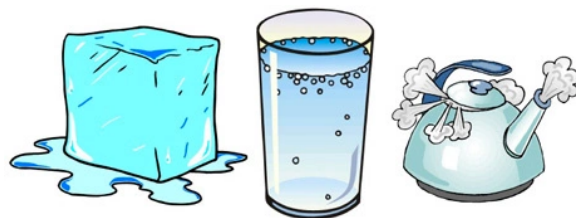
Science 7
Ms. Buckley

Bill Nye Video Questions Matter

1. What is the universe made of? _____

2. What are the 3 phases of matter?

- a.
- b.
- c.



3. What allows matter to change between the phases? _____

4. Why does liquid nitrogen not need a burner (heat) to change the molecules from a liquid to a gas? _____

5. When changing from a liquid to a gas, molecules move **faster** / **slower** and move **closer** / **farther** apart. (circle the correct answers)

6. When changing from a liquid to a solid, molecules move **faster** / **slower** and move **closer** / **farther** apart. (circle the correct answers)

7. The **faster** / **slower** the molecules are going the lower the pressure.

8. What do scientists call it if molecules completely stop moving? (this is impossible to actually get to) _____

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9. Describe how molecules are moving for each state below:

a. Solid - _____

b. Liquid - _____

c. Gas - _____

10. Circle the correct answer below for each phase:

When matter is in the **gas** phase it:

takes the shape of its container / holds its shape

When matter is in the **liquid** phase it:

takes the shape of its container / holds its shape

When matter is in the **solid** phase it:

takes the shape of its container / holds its shape

