

Name _____

Period _____

Homework on Matter

1) What are the names of the following phase changes:

Solid to liquid _____ Liquid to gas _____

Solid to gas _____ Gas to liquid _____

Liquid to solid _____ Gas to solid _____

2) What is the difference between the molecules in a sample of solid and liquid water?

3) What is the difference between the molecules in a sample of liquid and gaseous water?

4) How can you distinguish between a chemical change and a physical change?

5) List some of the things that can be evidence of a chemical change.

6) In a chemical reaction what does bubbling indicate?

7) Explain the difference between an element and a compound.

8) What is an atom?

9) What is an element?

10) What is a molecule?

11) What is the difference between a covalent compound and an ionic compound?

12) What is the difference between a cation and an anion?

13) What is the difference between a solvent and a solute?

14) What is a solution?

15) Identify the following as either a chemical change or a physical change?

Water boiling _____ Paper burning _____

Digestion _____ Photosynthesis _____

Baking cookies _____ Cooking meat _____

Frying an egg _____ Breathing _____

Bubbles in a soda _____ Sawing wood _____

16) Identify the following as an element, a compound, or a mixture:

Water _____ Sugar _____

Gold _____ Milk _____

Silver _____ Sodium _____

Air _____ Dirt _____

DNA _____ Kool Aid™ _____

Lead _____ Calcium _____

Brass _____ Alcohol _____