Science Unit 2 Heat and States of Matter Study Guide

Fill in the blanks from the word bank below. Words may be used more than once or not at all.

**solid liquid gas vapor steam heat electricity cooling**

1. Liquid changes to a \_\_\_\_gas\_\_\_\_\_\_\_ when it is heated.

2. When a candle is lit it changes from a \_\_\_\_\_\_\_solid\_\_\_\_\_\_\_ to a \_\_\_\_\_\_\_\_liquid\_\_\_\_\_\_\_\_\_.

3. \_\_\_\_Heat\_\_\_\_\_\_\_\_\_\_ must be increased or decreased for a change in matter to occur.

4. \_\_\_Cooling\_\_\_\_\_\_\_\_\_\_\_\_ can change a gas to a liquid.

5. Matter is most easily compressed as a \_\_\_\_\_\_\_solid\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Matter that has a definite shape is a \_\_\_\_\_solid\_\_\_\_\_\_\_\_\_\_\_\_.

7. Water in its gaseous form is known as \_\_\_\_\_\_\_vapor\_\_\_\_\_\_\_\_\_\_.

8. When matter is in a \_\_\_gas\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form, it will completely fill a container.

9. Matter that has no definite size is a \_\_\_\_\_\_liquid or gas\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. Someone can smell the scent of perfume because it changes from a \_\_\_\_\_\_\_liquid\_\_\_\_\_ to a \_\_\_\_\_gas\_\_\_\_\_\_.

Explain how liquids and gases are alike and different.

Liquids and gases are both states of matter that do not have a definite shape. Liquids have a definite size but gases don’t.

Explain how solids and liquids are alike and different.

Solids and liquids are both states of matter that have a definite size. Solids have a definite shape but liquids don’t.