**Science Unit 4 Concepts Study Guide**

1. A physical property is part of matter you can observe or measure.

2. Mass is the amount of matter an object has.

3. Objects with more mass are harder to move than objects with less mass.

4. You can use a pan balance to measure mass in grams.

5. Volume is the amount of space an object takes up.

6. To find the volume of a cube, multiply its length by its width and height.

7. Use a graduated cylinder to measure the volume of a liquid.

8. Use a thermometer to measure temperature, or how warm something is.

9. On Fahrenheit scale, water freezes at 32° and boils at 212°.

10. On a Celsius scale, water freezes at 0° and boils at 100°.

11. Solids take up a definite amount of space and have a definite shape.

12. Liquids take up a definite amount of space, but don’t have a definite shape.

13. Gases don’t take up a definite amount of space or have a definite shape.

14. When matter cools, it loses energy.

15. Water becomes a solid at 32°Fahrenheit, which is the same as 0° Celsius.

16. When matter is heated, it gains energy.

17. Liquid water boils and becomes a gas at 100° Celsius, which is 212° Fahrenheit.

18. Evaporation is when liquid water changes to a gas without boiling.

19. When water vapor cools, it may condense.

20. Condensation is when a gas changes into a liquid.

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