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| 1. An object's characteristic properties include its \_\_\_.1. mass and weight.
2. size and shape.
3. physical properties and chemical properties.
4. objective properties and subjective properties.

2. An object should float in a liquid if it is1. More dense than the liquid
2. Less dense than the liquid
3. Lighter than metal
4. Shaped like a ball

3. Density depends on1. weight
2. volume
3. mass
4. mass and volume

4. Which of the following is a physical property of matter?1. acidity
2. solubility
3. reactivity
4. combustibility

5. Which of the following is a chemical property of matter?1. acidity
2. odor
3. density
4. color

10. Which of the following involves a change in chemical properties?1. boiling water to make steam
2. mixing baking soda and vinegar to make a bubbles of carbon dioxide
3. melting a bar of solid gold to make liquid gold
4. tearing a piece of paper to make smaller pieces of paper
 | 6. What is the difference between a property and a change?A property describes the matter.A change describes the matter.Both describe the matter.None of the above.7. A wall that was once white is painted black. Which of the following is definitely true of the painted wall?1. Its chemical properties have changed.
2. Its physical properties have changed.
3. Both its physical properties and chemical properties have changed.
4. None of its properties have changed.

8. You are making hot chocolate, and you like it extra chocolaty. The recipe calls for two scoops of cocoa per 8 ounces of water, but you are going to add three. Explain why there is still cocoa in the bottom of your cup after you drink it all.1. You put too much solvent in the solute.
2. There was too much solute for the solvent.
3. Cocoa does not dissolve in water, only in milk.
4. The solution was unable to reach solubility

9. Which of the following involves a change in physical properties only?1. baking a loaf of bread
2. burning a match
3. freezing water into ice cubes
4. mixing an acid and a base

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**Answer Key**

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| 1. A | *6.P.2.3* |
| 2. B | *6.P.2.3* |
| 3. D | *6.P.2.3* |
| 4. B | *6.P.2.3* |
| 5. A | *6.P.2.3* |
| 6. A | *6.P.2.3* |
| 7. B | *6.P.2.3* |
| 8. B | *6.P.2.3* |
| 9. C | *6.P.2.3* |
| 10. B | *6.P.2.3* |
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