

Name: _____ Date: _____

Changes in Matter Pre-/Post-Test

Write whether each change is a physical (P) or chemical (C) change.

1. Rust forming on a car _____
2. Ice Melting _____
3. Water freezing _____
4. Cutting a piece of paper _____
5. Burning firewood _____

6. Which of these is an example of a change in the **state of matter**?
 - a. Crumbling crackers into a bowl of soup
 - b. Letting an ice cube melt into a glass of water
 - c. Crushing a cube of sugar into a powder
 - d. Stirring salt into a glass of water

7. China heated water until it became a gas (water vapor). Which term identifies this change?
 - a. Condensing
 - b. Melting
 - c. Boiling
 - d. Freezing

8. Which of the following is NOT a physical change that happens when water changes state?
 - a. Water boils
 - b. Water freezes
 - c. Ice sinks
 - d. Ice melts

9. **TRUE or FALSE?** A color change is a clue that a chemical change has occurred.

10. Give an example of a physical change.

11. Give an example of a chemical change.

12. What kind of change is grinding chalk into a powder?

- a. Chemical
- b. Mixture
- c. Physical
- d. Reaction

13. When a REACTION has occurred, that usually means a _____ change has occurred.

14. Your teacher mixes together two liquids. Together, the two liquids bubble. You just witnessed a:

- a. Transfer of energy
- b. Physical reaction
- c. Chemical reaction
- d. Force

15. Which mixture could you best separate with a filter?

- a. Salt and pepper
- b. Rocks and wood chips
- c. Sugar and iron fillings
- d. Sand and rocks

16. Jason dissolved a spoonful of salt in a glass of water. How can Jason know that the salt has gone through a physical change and not a chemical change? Explain.

A pancake is a common breakfast food that is eaten after mixing various ingredients together.

Part A: Is the change that occurs when mixing together the pancake ingredients physical or chemical? Explain why.

Part B: Describe a change that could be made to the pancake and it still remain a pancake.

Part C: When we cook the pancake on the griddle, or stove, is it undergoing a physical or chemical change? Explain why.
