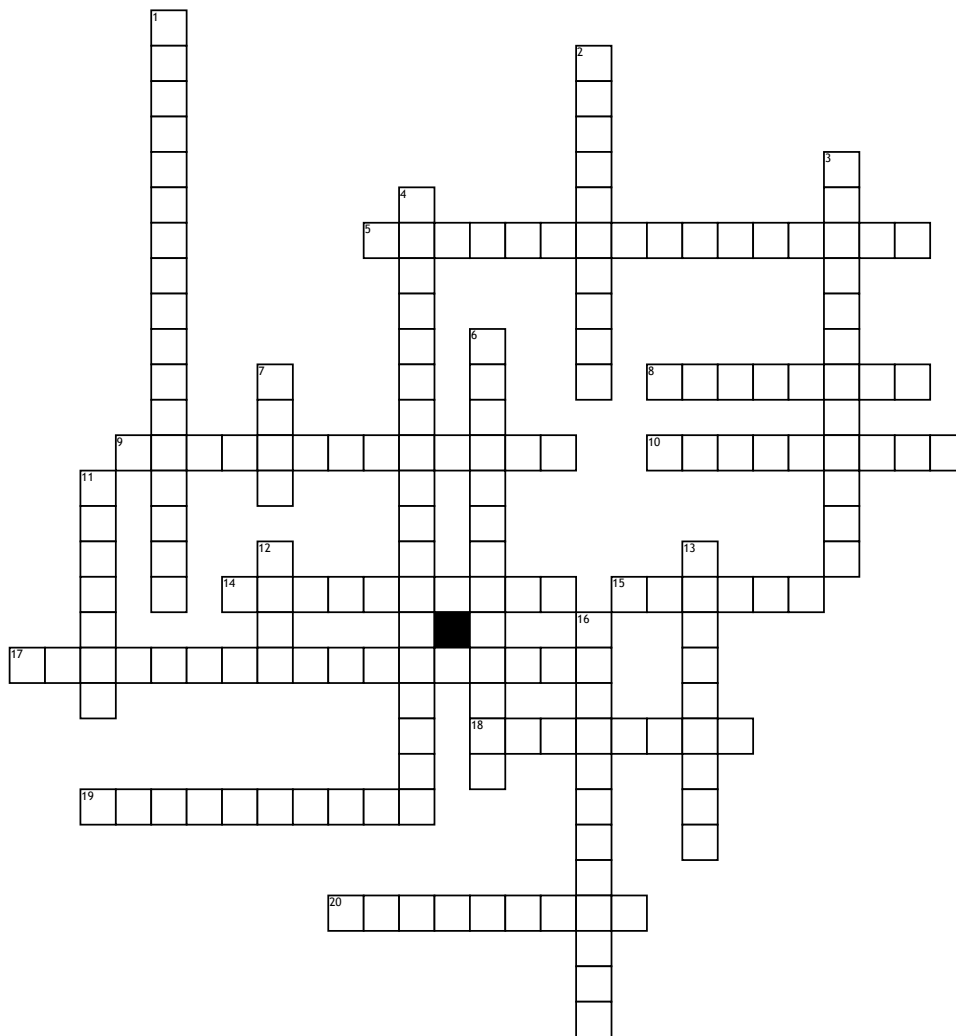


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Conversion of mass and types of reactions



**Across**

- 5. Which category of reactions is missing of combustion, synthesis, decomposition, single replacement, and what?
- 8. The total mass of the reactants equals the total mass of what?
- 9. What is it called when a single compound breaks down?
- 10. When two or more elements combine to form a more complex compound is called what?
- 14. In what century was the conversion of mass discovered?
- 15. What do decomposition reactions require?
- 17. A blank replacement takes the place of another element in a compound?

18. In what reaction can mass not be created or destroyed?

19. Which one of the five categories of reactions are not listed synthesis, decomposition, single replacement, and double replacement?

20. If mass wasn't created or destroyed then what did it do?

**Down**

- 1. What is it called when ions and two compounds change partners?
- 2. What is the name of the number that indicates the ratio of elements in a compound?
- 3. By looking at the what you can tell how many molecules or atoms of each reactant and product are involved in a reaction?

4. When a substance reacts with oxygen to produce energy in the form of heat what is it?

6. Law of conservation of mass is used in many fields such as chemistry, mechanics and blank?

7. Balancing an equation means that the atoms of each element are the what on both sides?

11. Who founded conversion of mass?

12. How many categories of reactants are there?

13. The product may have different properties to the what?

16. The finding of conversion mass led to what theory that was founded by John Dalton?

**Word Bank**

- |                   |            |                   |                    |
|-------------------|------------|-------------------|--------------------|
| Energy            | Converted  | DoubleReplacement | FluidDynamics      |
| SingleReplacement | Combustion | Synthesis         | Antoine            |
| Coefficients      | Products   | Eighteenth        | Subscripts         |
| DoubleReplacement | Reactants  | Five              | Same               |
| AtomicTheory      | Chemical   | Decomposition     | CombustionReaction |