## Chemical Formulas and Chemical Reactions

### Across
1. a chemical reaction in which the positive ion of one compound replaces the positive ion of another compound
2. the chemicals presented before a reaction
3. a chemical reaction in which one substance breaks down into two or more substances
4. a chemical reaction that absorbs energy primarily in the form of heat
5. a chemical reaction in which one element replaces another element in a compound
6. an insoluble compound that comes out of solution during a double-displacement reaction
7. a chemical reaction in which two or more substances combine to form another substance
8. a chemical reaction that occurs when a substance reacts with oxygen to release energy in the form of heat and light
9. the amount of valence electrons gained or lost between metals and nonmetals to become stable
10. a reaction in which the energy released is in the form of heat
11. means "written below"
12. the new chemicals presented after a reaction
13. a chemical reaction in which one compound absorbs energy primarily in the form of heat
14. when water is the solvent for a reaction
15. an insoluble compound that comes out of solution during a double-displacement reaction
16. a change in which one or more substances are converted into new substances while energy is released or absorbed
17. a way to describe a chemical reaction using chemical formulas and other symbols

### Down
1. a chemical reaction in which one or more substances are converted into new substances while energy is released or absorbed
2. a chemical reaction that absorbs energy primarily in the form of heat
3. a chemical reaction in which one substance breaks down into two or more substances
4. a reaction that occurs when a substance reacts with oxygen to release energy in the form of heat and light
5. the amount of valence electrons gained or lost between metals and nonmetals to become stable
6. representation of what elements a compound contains and the exact number of the atoms of each element in a unit of the compound
7. a number that represents the number of units of each chemical taking part in a reaction
8. a chemical reaction that absorbs energy primarily in the form of heat
9. a reaction in which the energy released is in the form of heat
10. means "written below"
11. a reaction in which the energy released is in the form of heat
12. when water is the solvent for a reaction
13. a chemical reaction in which one substance breaks down into two or more substances
14. a change in which one or more substances are converted into new substances while energy is released or absorbed