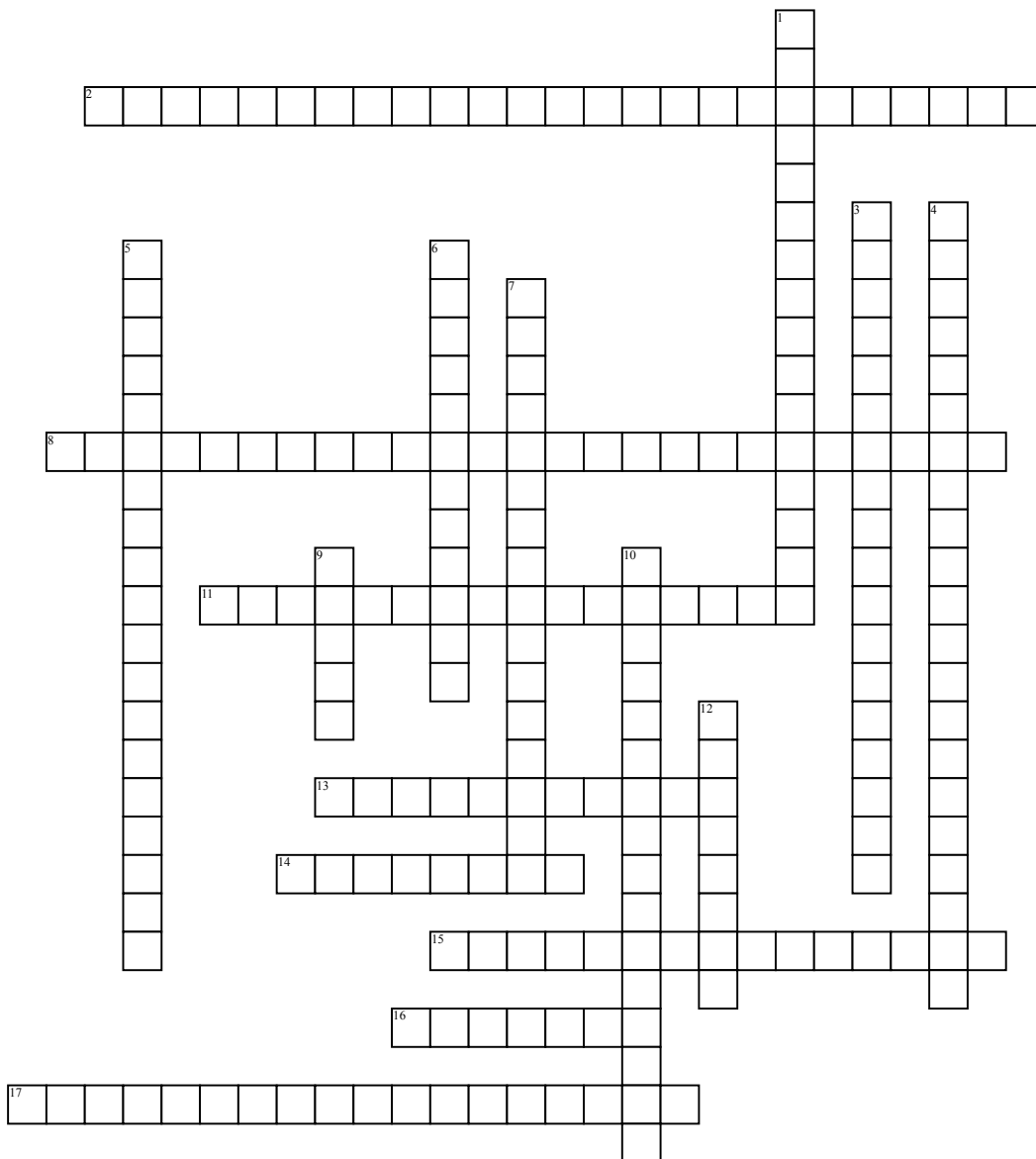


Chemical Reactions

**Across**

2. A reaction where two compounds react and the positive and negative ions switch places, forming new products.
8. A reaction where an element reacts with a compound and takes the place of another element in that compound.
11. A chemical equation for a reaction which lists only those species participating in the reaction.
13. The number in front of an element or compound which tells how many molecules are involved in a reaction.
14. A substance that takes part in and undergoes change during a reaction.
15. A solution in which the solvent is water.
16. A substance that is formed as the result of a chemical reaction.

17. A reaction where the reactants form products, which react together to give the reactants back.

Down

1. The symbolic representation of a chemical reaction in the form of letters and symbols.
3. A reaction between a fuel and an oxidant that produces a mixture termed as smoke.
4. The separation of a single chemical compound into its two or more elemental parts or to simpler compounds.
5. A reaction where two or more elements or compounds combine to form a single compound.
6. An ion that exists in the same form on both the reactant and product sides of a chemical reaction.

7. A way of using formulas to indicate the chemicals that were involved in a chemical reaction.

9. The amount of product obtained in a chemical reaction.

10. An equation for a chemical reaction in which the number of atoms for each element is the same in both the reactants and solutions.

12. A substance that increases the rate of a chemical reaction without itself undergoing any permanent chemical change.