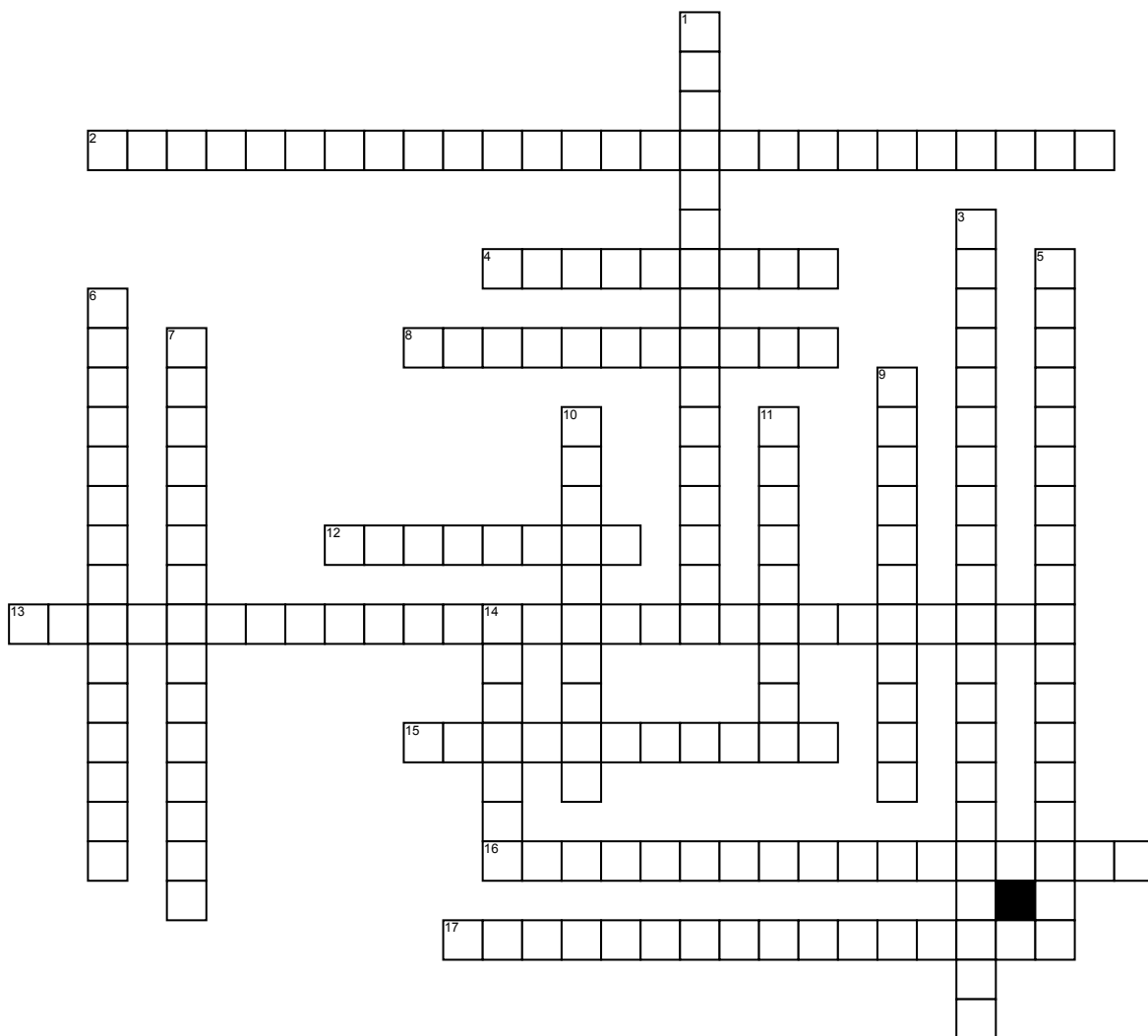


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# Chemical Formulas and Chemical Reactions



## Across

**2.** a chemical reaction in which the positive ion of one compound replaces the positive ion of another compound

**4.** the chemicals presented before a reaction

**8.** a chemical reaction that absorbs energy primarily in the form of heat

**12.** the new chemicals presented after a reaction

**13.** a chemical reaction in which one element replaces another element in a compound

**15.** an insoluble compound that comes out of solution during a double-displacement reaction

**16.** a chemical reaction in which two or more substances combine to form another substance

**17.** a way to describe a chemical reaction using chemical formulas and other symbols

## Down

**1.** a change in which one or more substances are converted into new substances while energy is released or absorbed

**3.** a chemical reaction in which one substance breaks down into two or more substances

**5.** a reaction that occurs when a substance reacts with oxygen to release energy in the form of heat and light

**6.** the amount of valence electrons gained or lost between metals and nonmetals to become stable

**7.** representation of what elements a compound contains and the exact number of the atoms of each elements in a unit of the compound

**9.** a number that represents the number of units of each chemical taking part in a reaction

**10.** a reaction in which the energy released is in the form of heat

**11.** means "written below"

**14.** when water is the solvent for a reaction