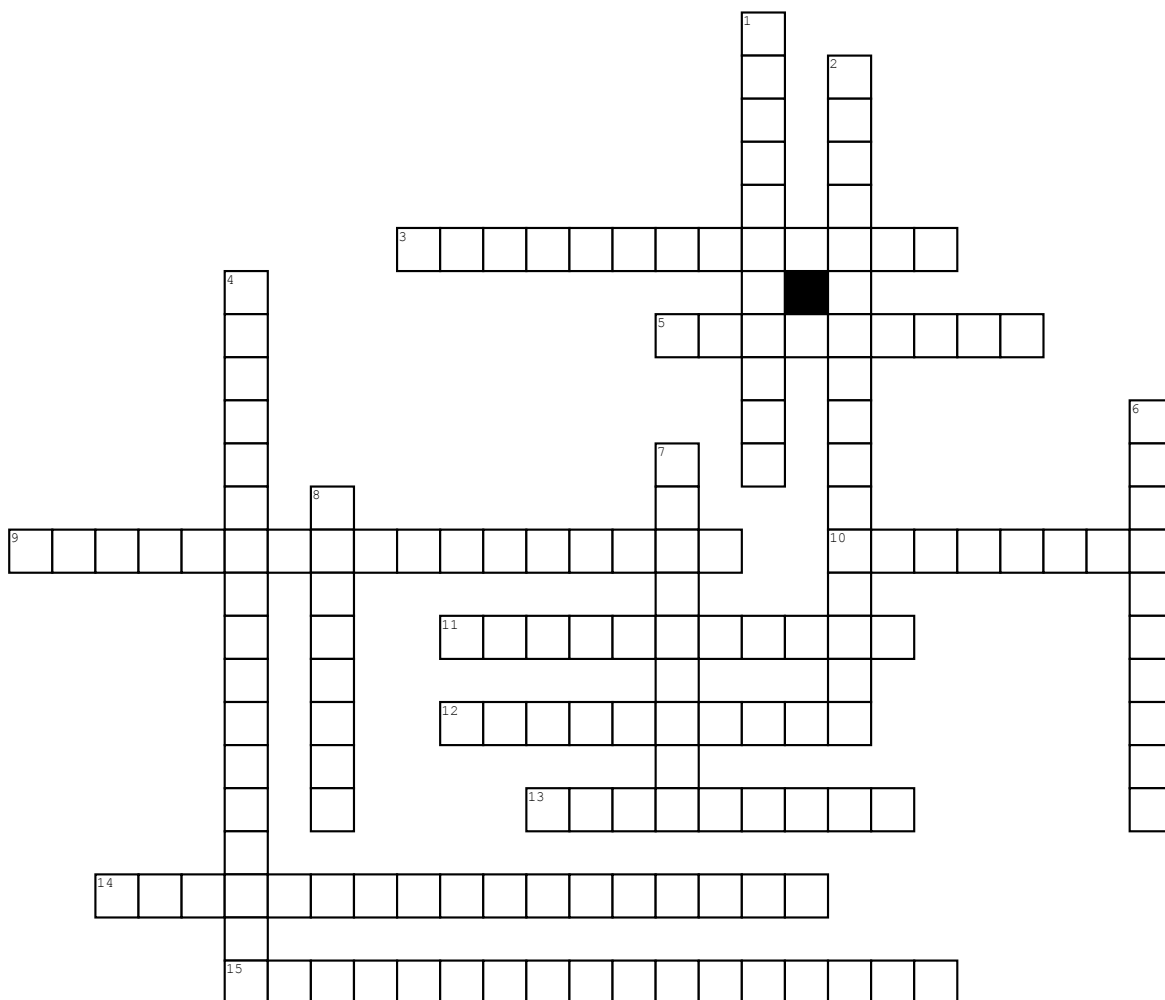


# chemical reactions & law conservation



## Across

- 3.** A reaction in which a single compound breaks down to form two or more simpler substances
- 5.** a chemical change in which a substance combines with oxygen, as when iron oxidizes, forming rust
- 9.** occur when ions exchange between two compounds
- 10.** a substance that increases the rate of a chemical reaction without itself undergoing any permanent chemical change.

## **11.** absorbs energy

- 12.** oxygen combines with a substance and releases energy in the form of heat and light
- 13.** a number in a chemical formula that tells the number of atoms in a molecule or the ratio of elements in a compound
- 14.** the most fundamental law in chemistry
- 15.** occurs when the atoms of one element replace the atoms of another element in the compound

## Down

- 1.** tells how many atoms molecules or formula units take part in a reaction
- 2.** a process during which chemical bonds between atoms are broken down and new ones are formed
- 4.** What shows the Law of Conservation of Mass?
- 6.** releases energy
- 7.** combine to form a single product
- 8.** the starting materials in a chemical reaction