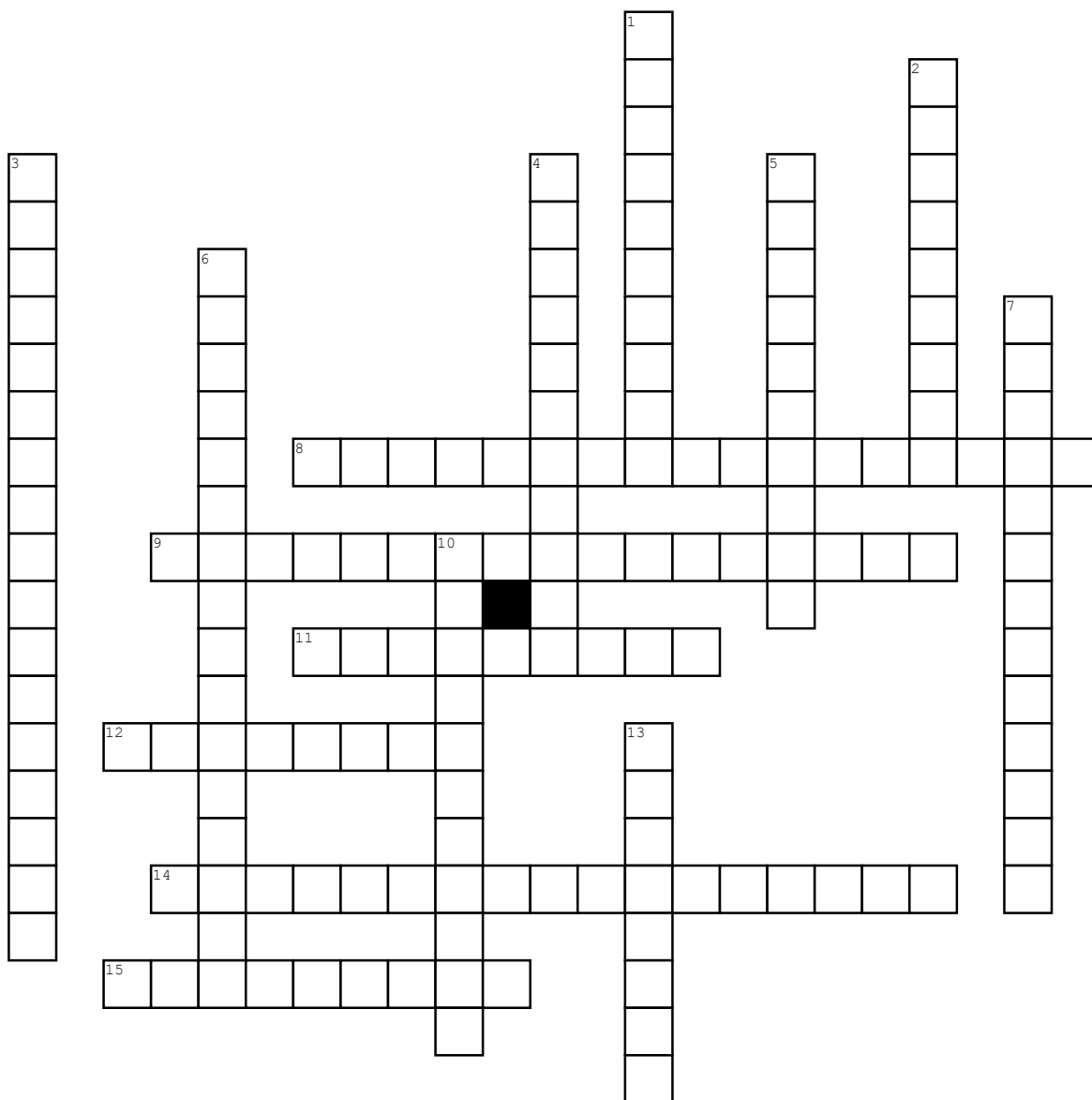


# Chemical Reactions & Law Conservation



## Across

8. the most fundamental law in chemistry
9. What shows the Law of Conservation of Mass?
11. a chemical change in which a substance combines with oxygen, as when iron oxidizes, forming rust
12. the starting materials in a chemical reaction
14. occurs when the atoms of one element replace the atoms of another element in the compound
15. Combine to form a single product

## Down

1. oxygen combines with a substance and releases energy in the form of heat and light
2. a number in a chemical formula that tells the number of atoms in a molecule or the ratio of elements in a compound
3. occur when ions exchange between two compounds
4. tells how many atoms molecules or formula units take part in a reaction
5. Releases energy

6. a process during which chemical bonds between atoms are broken down and new ones are formed
7. A reaction in which a single compound breaks down to form two or more simpler substances
10. Absorbs energy
13. a substance that increases the rate of a chemical reaction without itself undergoing any permanent chemical change.