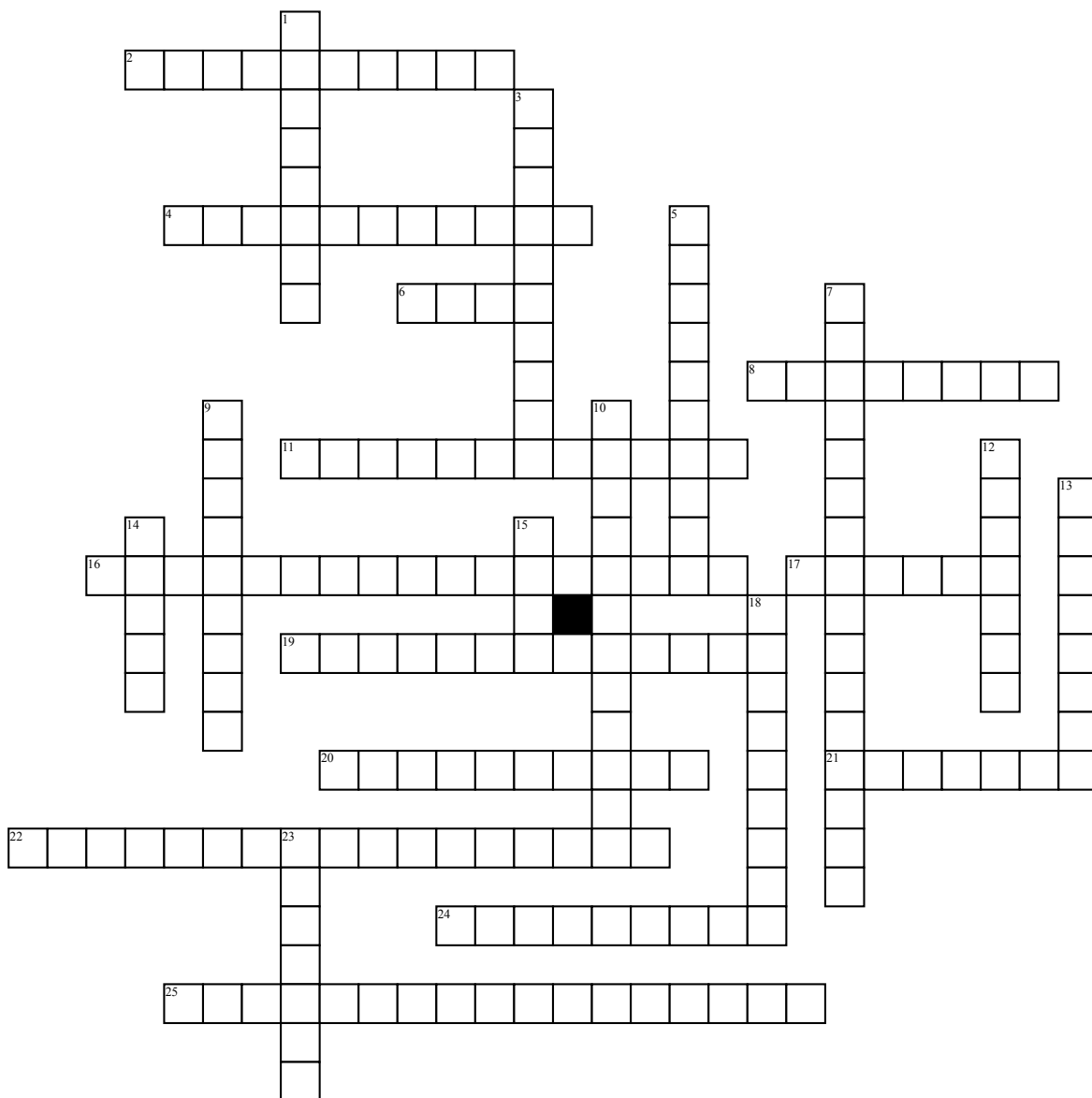


# Chemical Equations



## Across

2. an element will replace an element in a compound only if the single element is
4. solid that forms as a result of a double replacement reaction
6. compound with hydroxide ion is classified as a
8. substance that speeds up a chemical reaction without being permanently changed
11. numbers used to balance a chemical equation
16. cations switch places to form two new compounds
17. list of elements in order of reactivity is used with \_\_\_\_\_ replacement reactions
19. in combustion reactions this gas is produced when oxygen is abundant

20. chart used to determine which product is a precipitate in double replacement reactions
21. proteins that acts as a biological catalyst
22. one element replaces another element in a compound
24. two or more substances combine to form a new compound
25. Mass is not created nor destroyed during a chemical reaction

## Down

1. chemical equation that has equal number of atoms of each element as reactants and products
3. chemical reactions that release energy
5. reaction of a hydrocarbon with oxygen to form water and carbon dioxide

7. minimum amount of energy required to start a chemical reaction
9. substance that slows down or stops a chemical reaction
10. reaction in which one substance breaks down into simpler substances
12. substance in a reaction represented by (aq)
13. substance(s) formed as a result of a chemical reaction
14. these numbers are required in compounds with transition metals
15. any compound with hydrogen as its cation
18. substance on the left of the reaction arrow
23. measure of the disorder of a system