

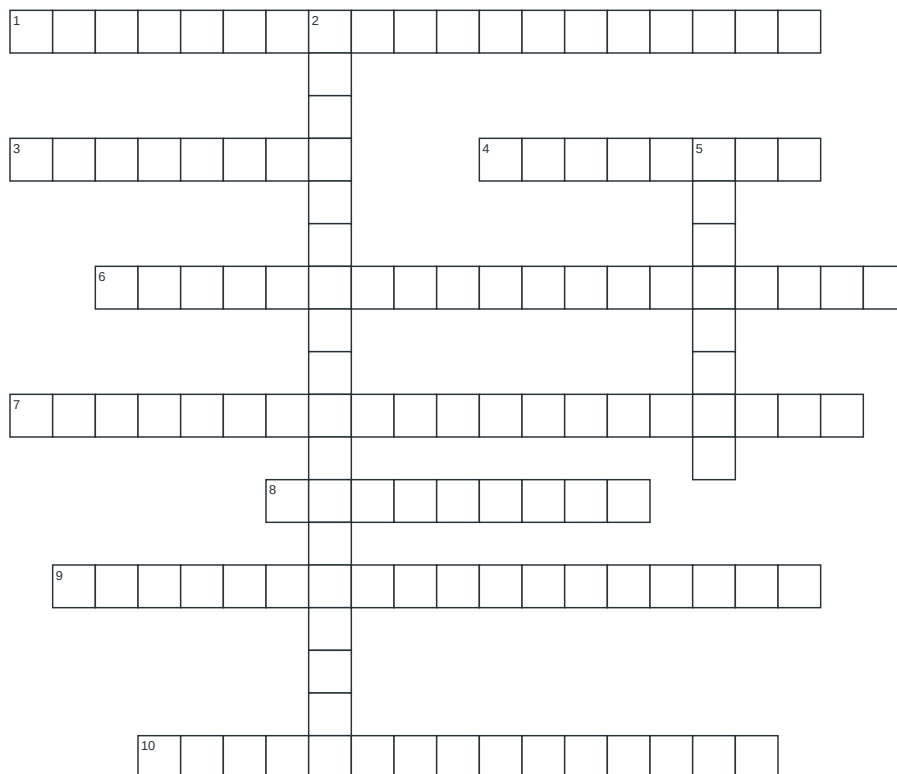
Chemical Equilibrium Crossword

Easy | 10 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.

**ACROSS**

1. Adding reactant changes the concentrations, but temperature stays fixed. What remains unchanged for that reaction
3. A discrete group of atoms held together by covalent bonds
4. Substances formed by a chemical reaction
6. For a fixed reaction, what change can alter its equilibrium constant
7. System that can maintain chemical equilibrium without material escaping

ACROSS (continued)

8. Substances present before and consumed in a reaction
9. Forward and reverse reaction rates are equal
10. Speeds both directions without shifting equilibrium composition

DOWN

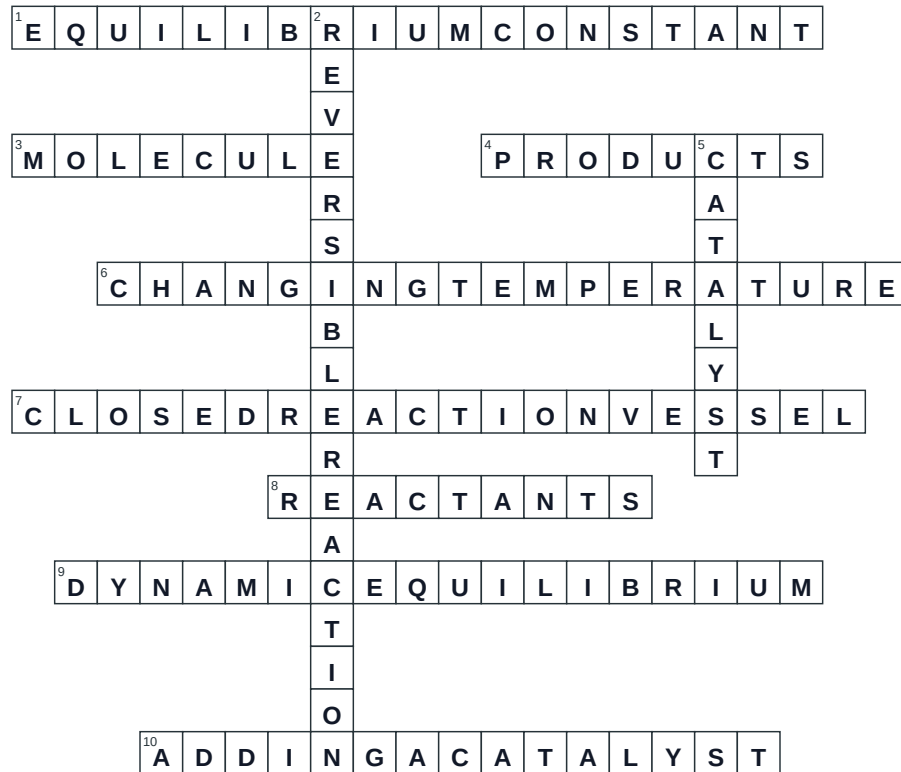
2. One that can proceed in both directions under suitable conditions
5. A substance that speeds a reaction without being consumed overall

Chemical Equilibrium Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

1. Equilibrium Constant
3. Molecule
4. Products
6. Changing Temperature
7. Closed Reaction Vessel
8. Reactants

ACROSS (continued)

9. Dynamic Equilibrium
10. Adding A Catalyst

DOWN

2. Reversible Reaction
5. Catalyst

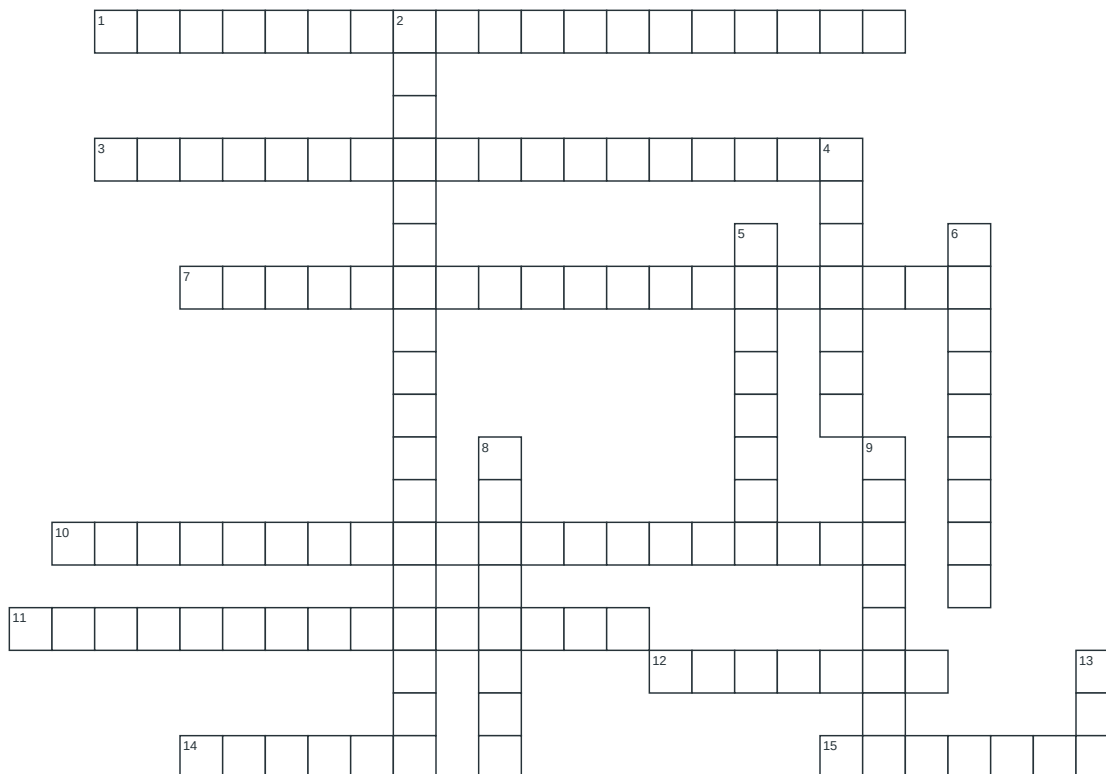
Chemical Equilibrium Crossword

Medium | 15 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

1. Adding reactant changes the concentrations, but temperature stays fixed. What remains unchanged for that reaction
3. Forward and reverse reaction rates are equal
7. For a fixed reaction, what change can alter its equilibrium constant
10. System that can maintain chemical equilibrium without material escaping
11. Speeds both directions without shifting equilibrium composition
12. Membrane-bound organelle that contains most eukaryotic DNA.
14. Subatomic particle that carries a positive electric charge

ACROSS (continued)

15. Subatomic particle that has no electric charge
- ### DOWN

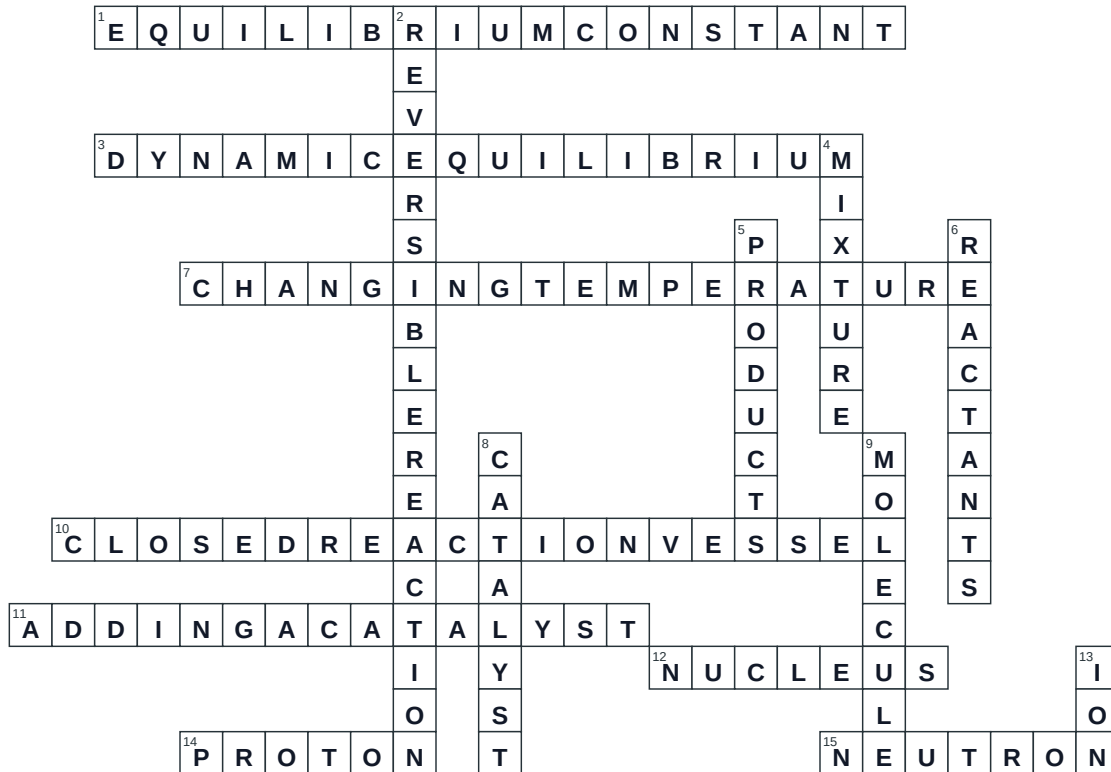
2. One that can proceed in both directions under suitable conditions
4. Two or more substances combined without a fixed chemical composition
5. Substances formed by a chemical reaction
6. Substances present before and consumed in a reaction
8. A substance that speeds a reaction without being consumed overall
9. A discrete group of atoms held together by covalent bonds
13. Atom or group of atoms with a net electric charge.

Chemical Equilibrium Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

1. Equilibrium Constant
3. Dynamic Equilibrium
7. Changing Temperature
10. Closed Reaction Vessel
11. Adding A Catalyst
12. Nucleus
14. Proton
15. Neutron

DOWN

2. Reversible Reaction
4. Mixture
5. Products
6. Reactants
8. Catalyst
9. Molecule
13. Ion

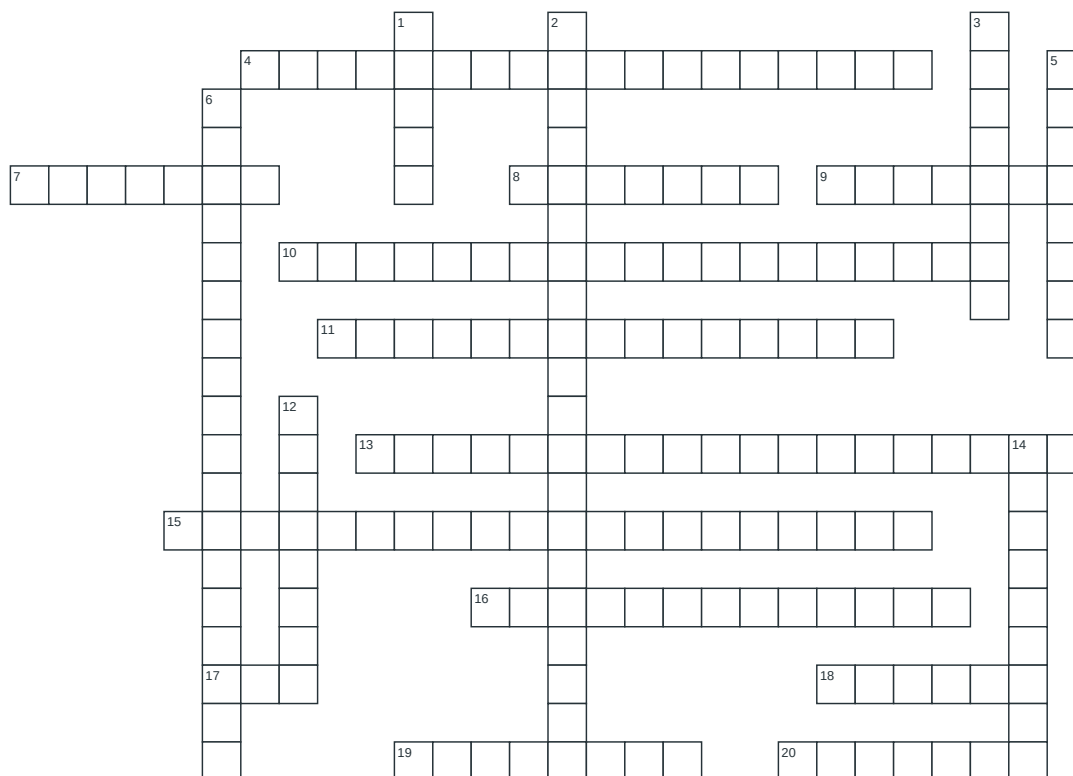
Chemical Equilibrium Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.

**ACROSS**

4. One that can proceed in both directions under suitable conditions
7. Pure substance made of only one type of atom.
8. Subatomic particle that has no electric charge
9. Two or more substances combined without a fixed chemical composition
10. Adding reactant changes the concentrations, but temperature stays fixed. What remains unchanged for that reaction
11. Speeds both directions without shifting equilibrium composition
13. For a fixed reaction, what change can alter its equilibrium constant
15. Condition in which positive and negative charges balance.
16. Electron locations are described by regions of probability
17. Atom or group of atoms with a net electric charge.

ACROSS (continued)

18. Subatomic particle that carries a positive electric charge
19. A substance that speeds a reaction without being consumed overall
20. Membrane-bound organelle that contains most eukaryotic DNA.

DOWN

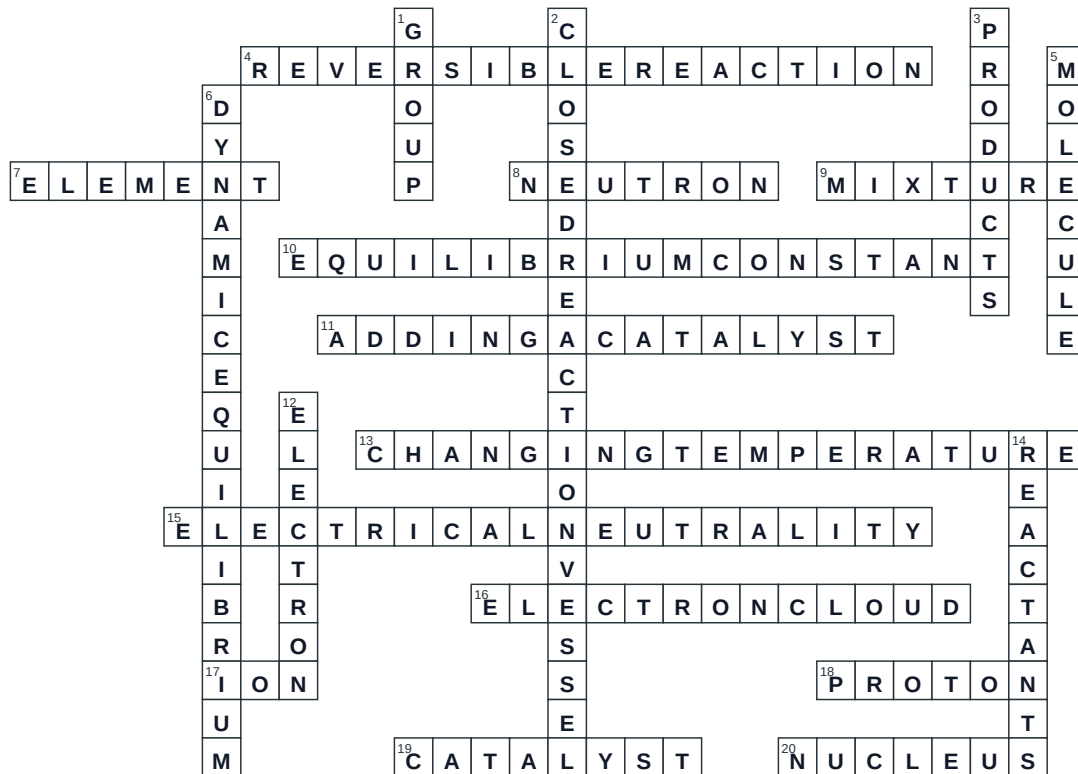
1. Definition of a vertical column of the periodic table called
2. System that can maintain chemical equilibrium without material escaping
3. Substances formed by a chemical reaction
5. A discrete group of atoms held together by covalent bonds
6. Forward and reverse reaction rates are equal
12. Definition of a beta-minus particle emitted in nuclear decay
14. Substances present before and consumed in a reaction

Chemical Equilibrium Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

4. Reversible Reaction
7. Element
8. Neutron
9. Mixture
10. Equilibrium Constant
11. Adding A Catalyst
13. Changing Temperature
15. Electrical neutrality
16. Electron Cloud
17. Ion
18. Proton

ACROSS (continued)

19. Catalyst
20. Nucleus

DOWN

1. Group
2. Closed Reaction Vessel
3. Products
5. Molecule
6. Dynamic Equilibrium
12. Electron
14. Reactants