

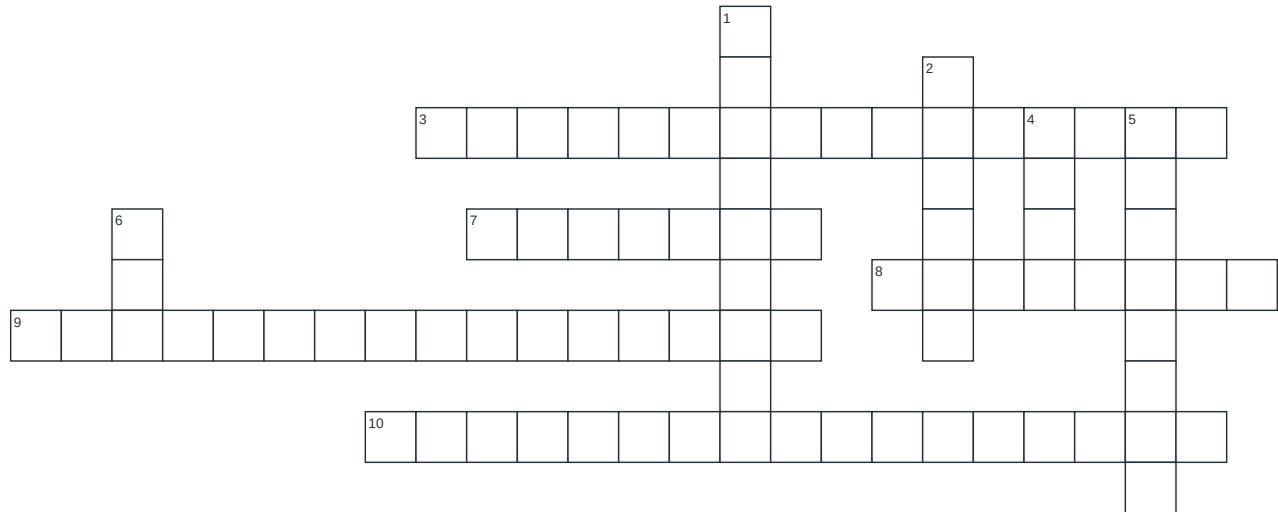
Acids Bases and pH Crossword

Easy | 10 clues | Student Worksheet

Name: _____

Date: _____

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



ACROSS

3. Particle that accepts a proton in an acid–base reaction
7. Subatomic particle that has no electric charge
8. A discrete group of atoms held together by covalent bonds
9. Particle that donates a proton in an acid–base reaction
10. Changes color over a particular pH range

DOWN

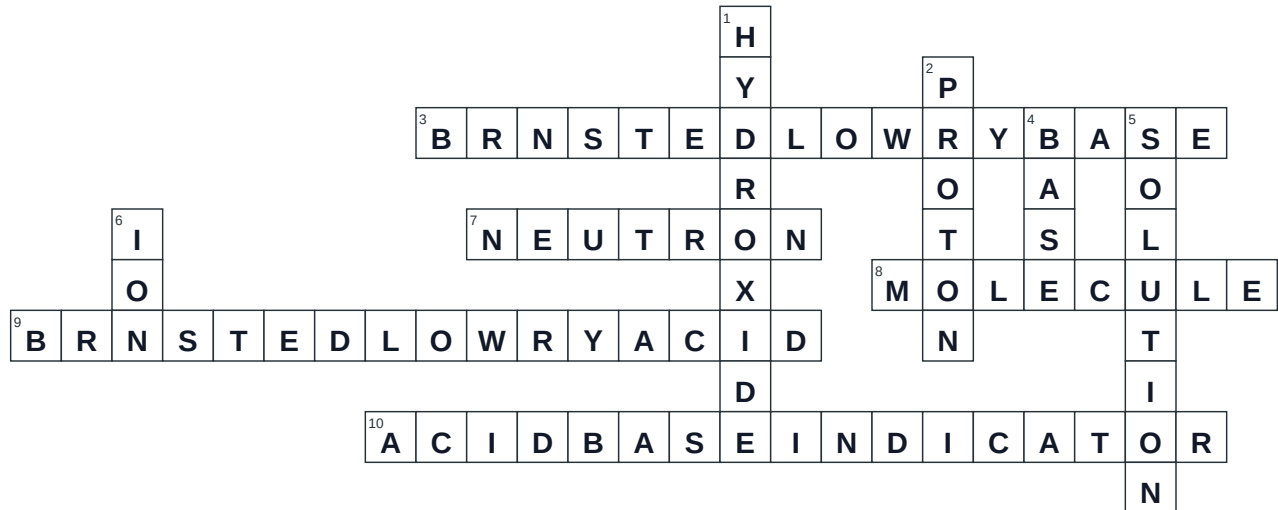
1. Ion that is represented by OH $\blacksquare$
2. Subatomic particle that carries a positive electric charge
4. A reaction transfers H $^{+}$ from molecule X to molecule Y. Which role does Y play
5. Homogeneous mixture in which a solute is dispersed in a solvent.
6. Atom or group of atoms with a net electric charge.

Acids Bases and pH Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

3. Brønsted–Lowry Base
7. Neutron
8. Molecule
9. Brønsted–Lowry Acid
10. Acid–base Indicator

DOWN

1. Hydroxide
2. Proton
4. Base
5. Solution
6. Ion

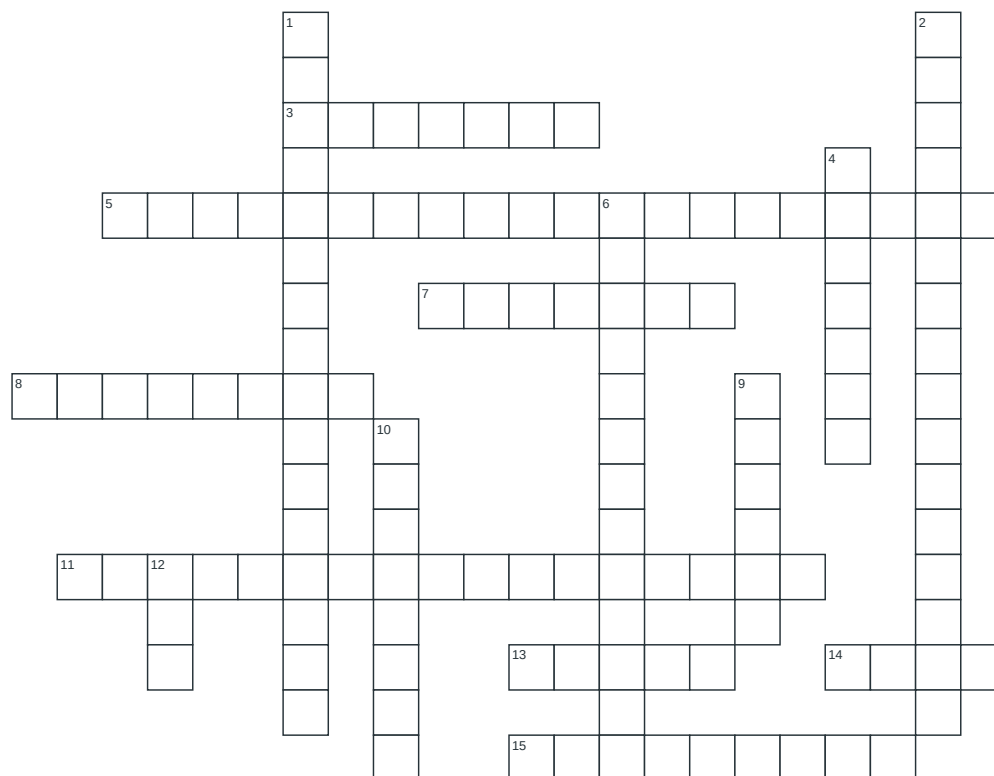
Acids Bases and pH Crossword

Medium | 15 clues | Student Worksheet

Name: _____

Date: _____

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

**ACROSS**

3. Subatomic particle that has no electric charge
5. Condition in which positive and negative charges balance.
7. Membrane-bound organelle that contains most eukaryotic DNA.
8. Homogeneous mixture in which a solute is dispersed in a solvent.
11. Changes color over a particular pH range
13. Definition of a vertical column of the periodic table called
14. A reaction transfers H^+ from molecule X to molecule Y. Which role does Y play

ACROSS (continued)

15. Ion that is represented by OH^-

DOWN

1. Particle that donates a proton in an acid–base reaction
2. Particle that accepts a proton in an acid–base reaction
4. Pure substance made of only one type of atom.
6. Electron locations are described by regions of probability
9. Subatomic particle that carries a positive electric charge
10. A discrete group of atoms held together by covalent bonds
12. Atom or group of atoms with a net electric charge.

Acids Bases and pH Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

3. Neutron
5. Electrical neutrality
7. Nucleus
8. Solution
11. Acid–base Indicator
13. Group
14. Base
15. Hydroxide

DOWN

1. Brønsted–Lowry Acid
2. Brønsted–Lowry Base
4. Element
6. Electron Cloud
9. Proton
10. Molecule
12. Ion

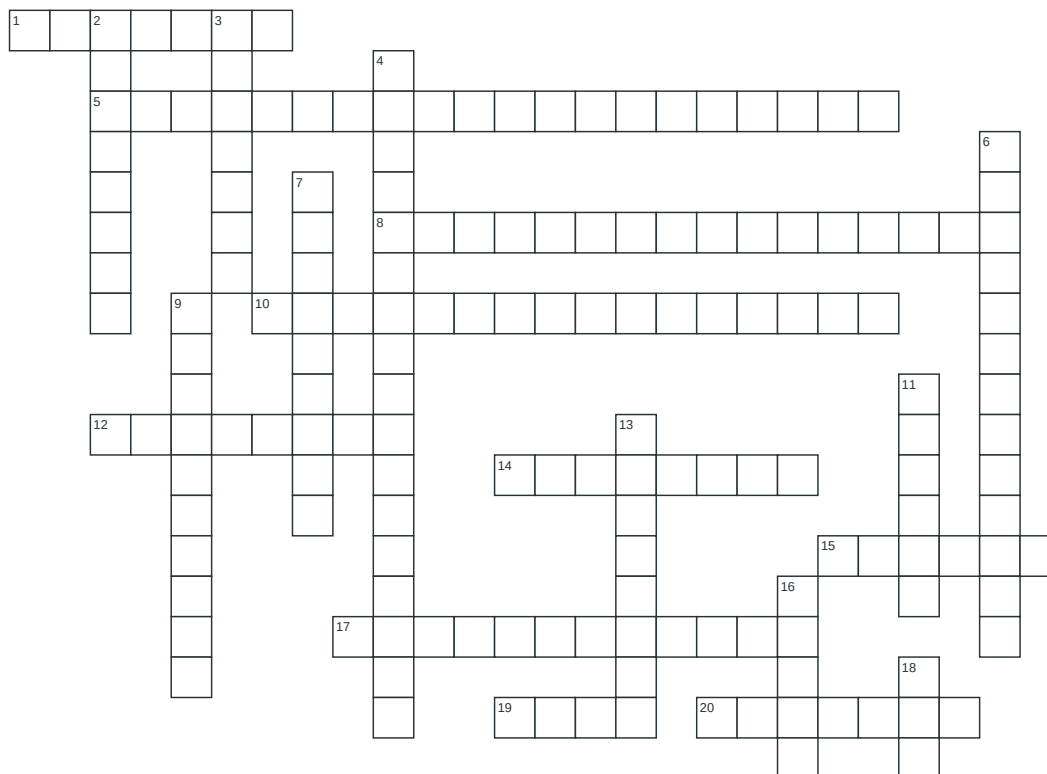
Acids Bases and pH Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

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



ACROSS

1. Pure substance made of only one type of atom.
5. Condition in which positive and negative charges balance.
8. Particle that accepts a proton in an acid–base reaction
10. Particle that donates a proton in an acid–base reaction
12. Homogeneous mixture in which a solute is dispersed in a solvent.
14. Group that includes fluorine, chlorine, and bromine
15. Subatomic particle that carries a positive electric charge
17. Number of protons in an atom's nucleus.
19. A reaction transfers H^+ from molecule X to molecule Y. Which role does Y play
20. Subatomic particle that has no electric charge

DOWN

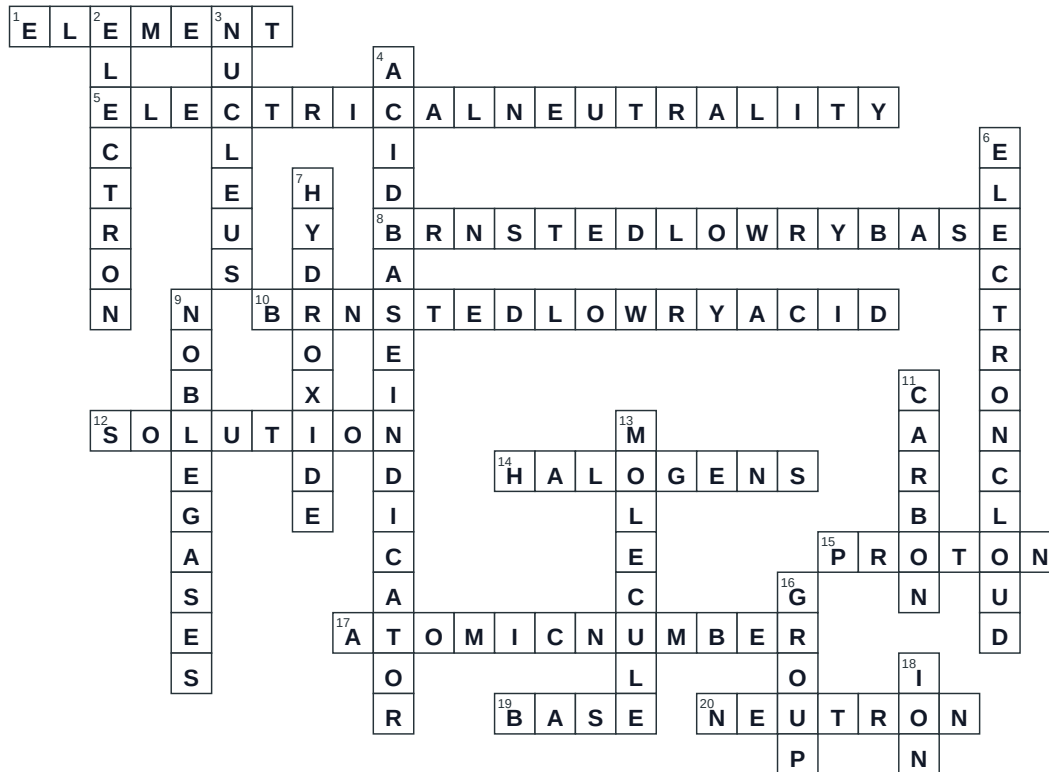
2. Definition of a beta-minus particle emitted in nuclear decay
3. Membrane-bound organelle that contains most eukaryotic DNA.
4. Changes color over a particular pH range
6. Electron locations are described by regions of probability
7. Ion that is represented by OH^-
9. Group that includes helium, neon, and argon
11. Element that forms the backbone of most organic molecules
13. A discrete group of atoms held together by covalent bonds
16. Definition of a vertical column of the periodic table called
18. Atom or group of atoms with a net electric charge.

Acids Bases and pH Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

1. Element
5. Electrical neutrality
8. Brønsted–Lowry Base
10. Brønsted–Lowry Acid
12. Solution
14. Halogens
15. Proton
17. Atomic number
19. Base
20. Neutron

DOWN

2. Electron
3. Nucleus
4. Acid–base Indicator
6. Electron Cloud
7. Hydroxide
9. Noble Gases
11. Carbon
13. Molecule
16. Group
18. Ion