

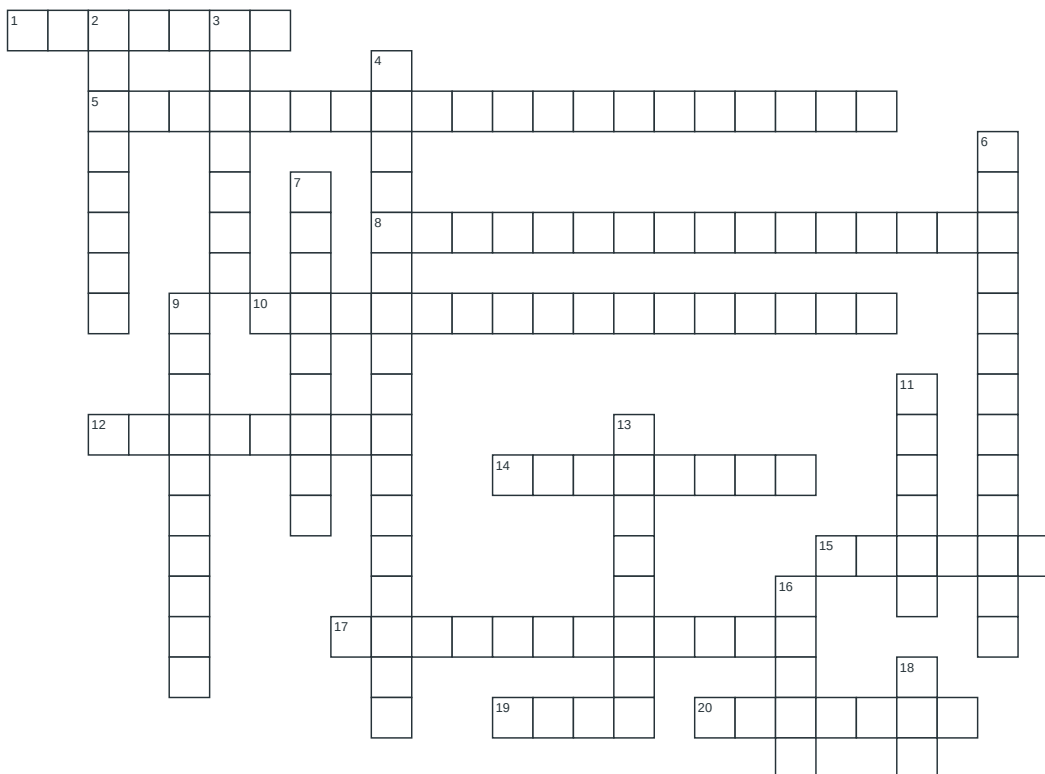
Acids Bases and pH Crossword

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

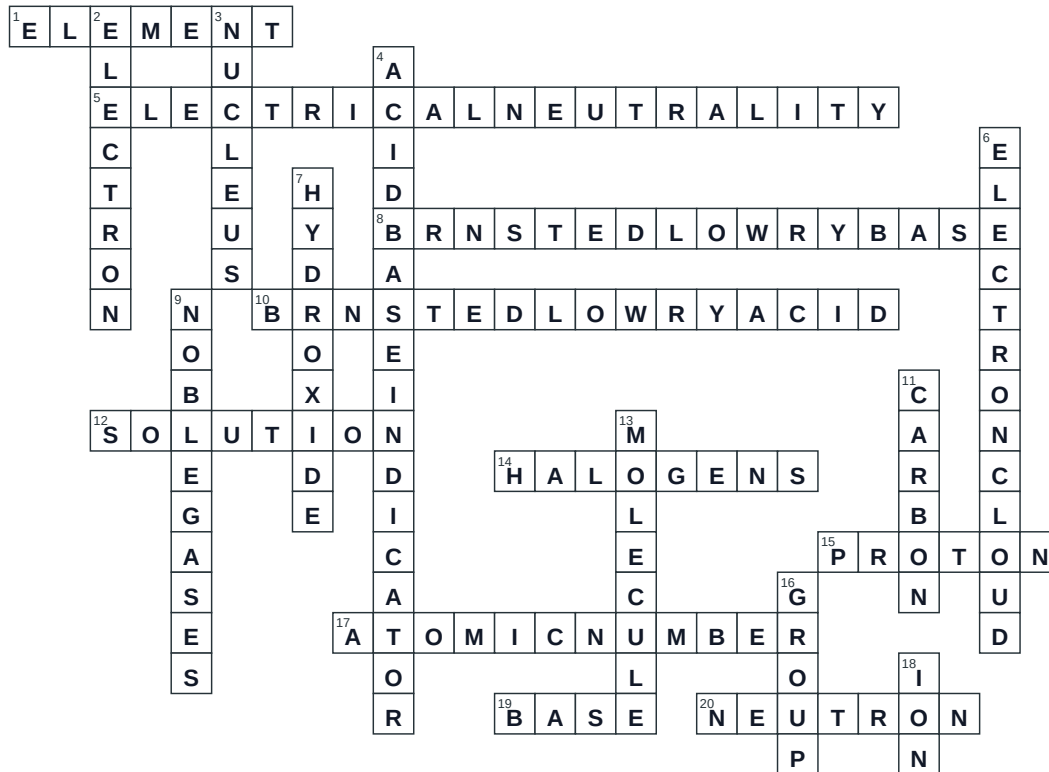
2. Definition of a beta-minus particle emitted in nuclear decay
3. Membrane-bound organelle that contains most eukaryotic DNA.
4. Changes color over a particular pH range
6. Electron locations are described by regions of probability
7. Ion that is represented by OH^-
9. Group that includes helium, neon, 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.

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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