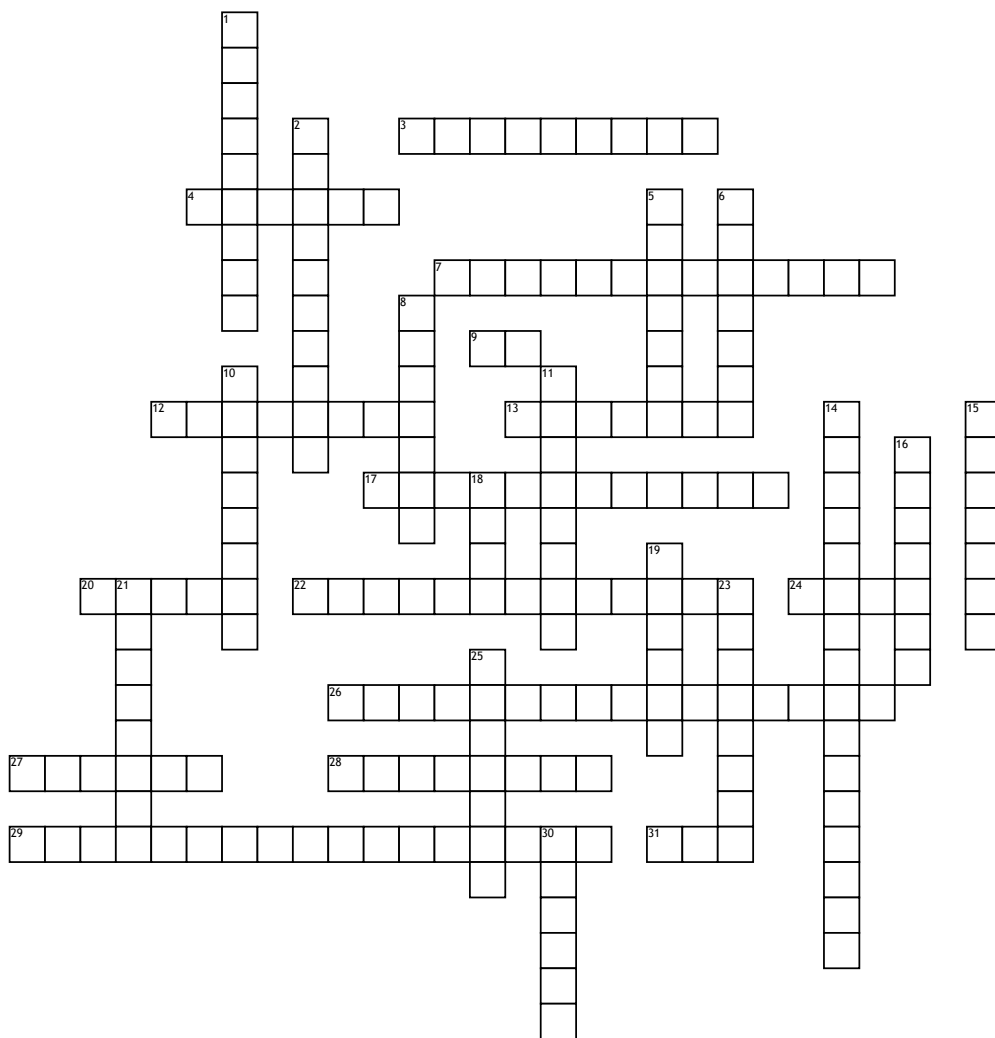


Chemistry in Biology Crossword



Across

3. complete transfer of valence electron(s) between atoms
 4. a stable subatomic particle occurring in all atomic nuclei, with a positive electric charge
 7. molecule with oppositely charged regions
 9. a figure expressing the acidity or alkalinity of a solution
 12. a substance that takes part in and undergoes change during a reaction.
 13. able to dissolve other substances
 17. chemical bond that involves the sharing of electron pairs between atoms
 20. a chemical substance that neutralizes alkalis, dissolves some metals, and turns litmus red;
 22. a molecule containing a very large number of atoms
 24. 8-14 on pH scale
 26. a process that involves rearrangement of the molecular or ionic structure of a substance,
 27. the minor component in a solution, dissolved in the solvent.

28. a liquid mixture in which the minor component (the solute) is uniformly distributed within the major component (the solvent).

29. attractive forces between molecules

31. an atom or molecule with a net electric charge due to the loss or gain of one or more electrons.

Down

1. the substance on which an enzyme acts.
 2. a region on an enzyme that binds to a protein or other substance during a reaction.
 5. each of two or more forms of the same element that contain equal numbers of protons but different numbers of neutrons in their nuclei
 6. pure substance composed of only one type of atom
 8. a subatomic particle of about the same mass as a proton but without an electric charge,
 10. a substance that increases the rate of a chemical reaction without itself undergoing any permanent chemical change.
 11. a group of atoms bonded together

14. the minimum quantity of energy which the reacting species must possess in order to undergo a specified reaction.

15. a thing or person that is the result of an action or process

16. the central and most important part of an object, movement, or group, forming the basis for its activity and growth.

18. the basic unit of a chemical element

19. a solution that resists changes in pH when acid or alkali is added to it.

21. formed when two or more elements combine

23. a stable subatomic particle with a charge of negative electricity

25. a substance made by mixing other substances together

30. a substance produced by a living organism which acts as a catalyst to bring about a specific biochemical reaction.

Word Bank

active site	catalyst	activation energy	van der Waals forces	compound	acids
ionic bond	mixture	nucleus	molecule	solution	macromolecule
reactant	covalent bond	proton	base	electron	substrate
atom	polar molecule	product	solute	pH	chemical reaction
isotope	neutron	buffer	ion	enzyme	element
solvent					