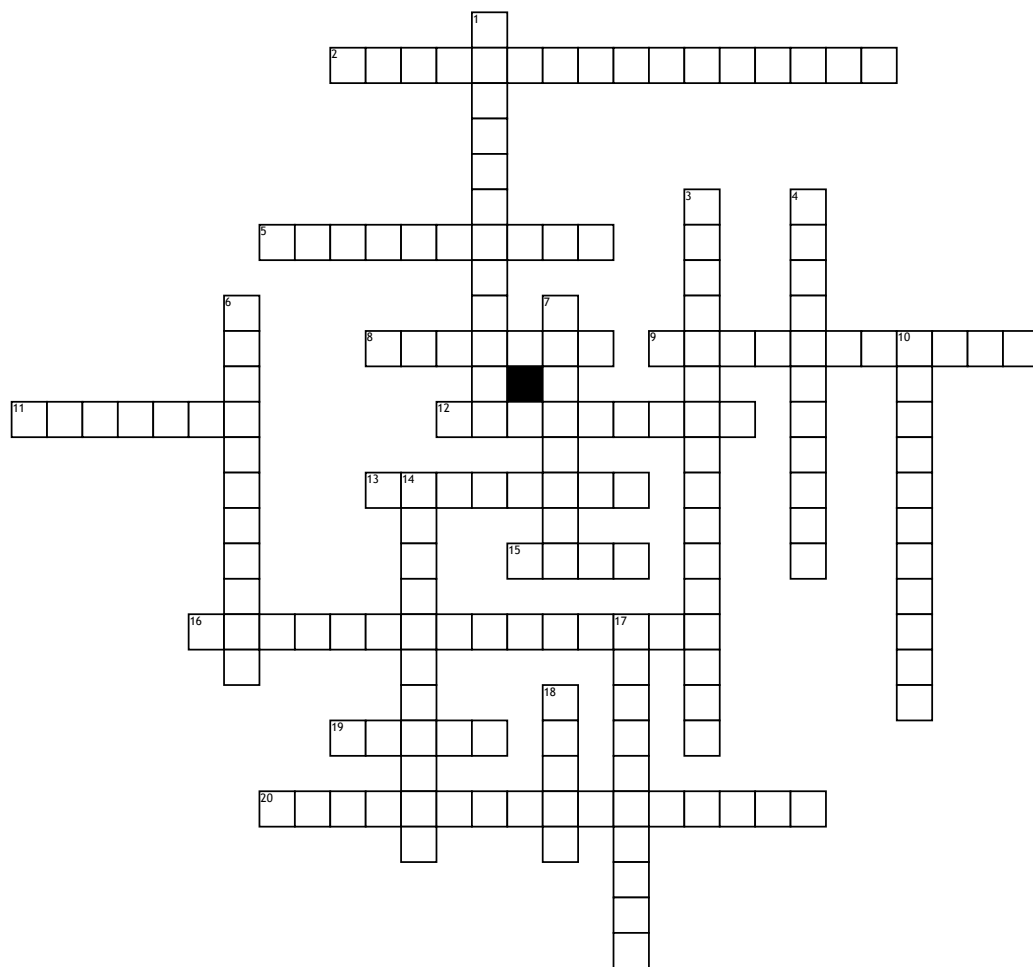


Name: \_\_\_\_\_

# Organic Reaction Crossword



## Across

2. A system in the molecule that alternates from single bond to double bond. Two words  
 5. A molecule with a carbon to carbon double bonds next to a positively charged carbon. Two words  
 8. A region of space in which 95% of the time an electron can be found  
 9. Addition of a proton to an atom  
 11. A molecule, or ion that has an unpaired valence electron  
 12. What does the rear attach of a nucleophile lead to in the SN2 mechanism  
 13. A type of alcohol formed when the hydroxyl group is attached to a carbon with no hydrogens attached to it.

15. What order is the nucleophile in the SN1 mechanism?  
 16. Compounds which can alkylate DNA preventing normal protein function. Two words. 1st word=10 letters, 2nd=5 letters  
 19. What order is the SN1 reaction in?  
 20. Two words which explain the reason why bigger nucleophiles are less successful in SN2 reactions

## Down

1. Type of reaction in which a nucleophile is used to replace another functional group  
 3. A process that takes place as you add methyl groups to a carbocation. This makes the carbocation more stable  
 4. A molecule in which a carbon atom has a positive charge and three bonds

6. An electron donor  
 7. A mixture that contains an equal amount of two compounds that mirror each other but are not identical.  
 10. Step in which free radicals react to form a non radical product.  
 14. Reactions which take in energy from the surroundings  
 17. Reaction which releases energy to the surroundings  
 18. An unsaturated hydrocarbon that contains two double bonds between carbons

## Word Bank

Termination	Conjugated system	Racemate	Ally cation	radical
Hyperconjugation	Endothermic	Protonation	Nucleophile	Diene
Carbocation	Zero	Inversion	Exothermic	First
Alkylating agent	Orbital	Substitution	Steric Hindrance	Tertiary