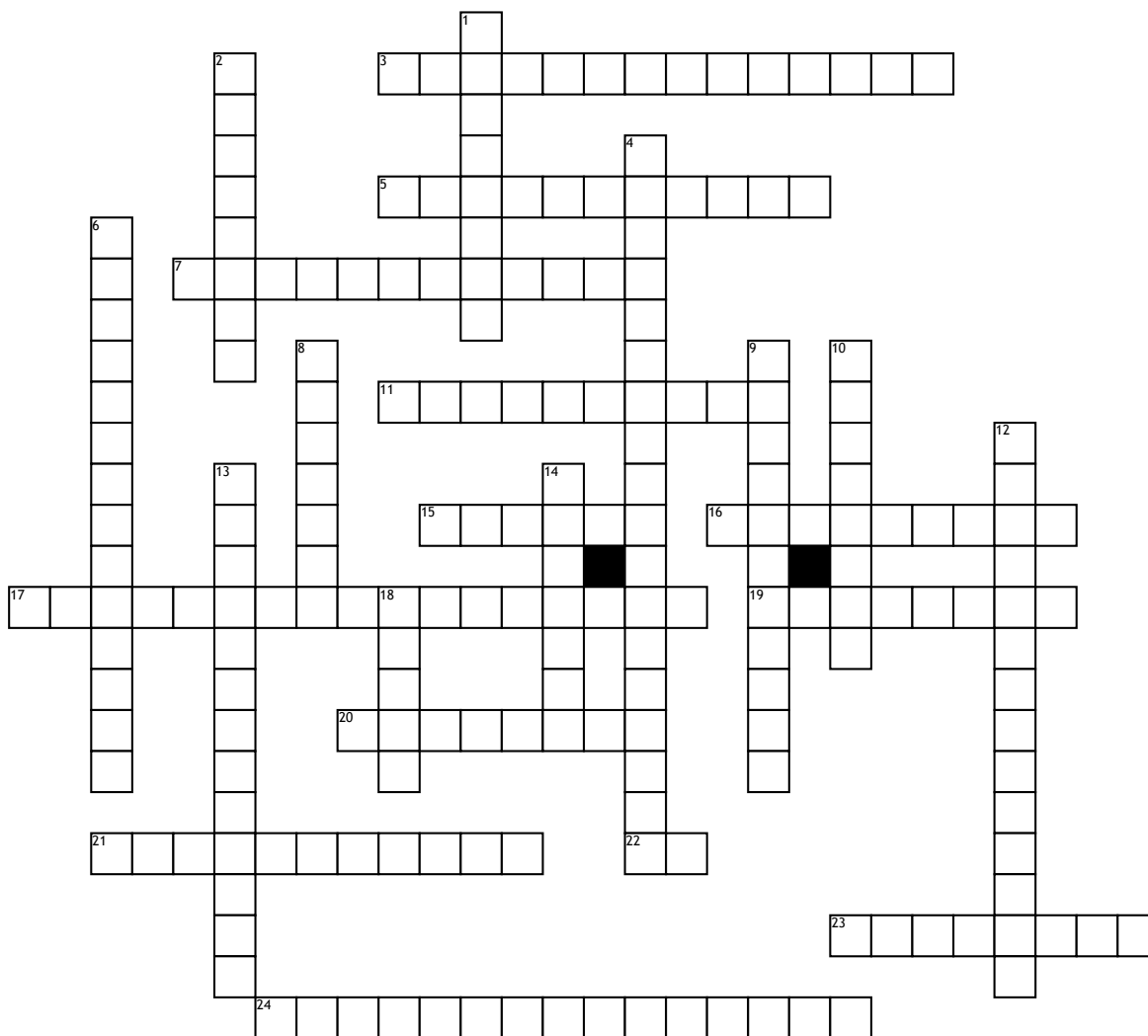


Name: _____

Date: _____

Functional group chemistry crossword



Across

3. Which functional group contains both C-OH and C=O?

5. If you increase this the boiling point increases

7. These interactions are easy to break

11. Which rule states that 'electrons occupy degenerate orbitals in such a way as to maximise the number of unpaired electrons'?

15. What homologous series of hydrocarbons can be made when 2 sp² carbon atoms combine

16. This type of amine is attached to 2 alkyl groups

17. If a carbon atom doesn't have any hydrogen atoms bonded to it, it is known as a

19. Atomic orbitals describe the position of what particle in an atom

20. What type of bonding involves a shared pair of electrons between atoms?

21. What shape does a carbon atom with sp³ hybridisation have?

22. Carbon dioxide contains what type of hybridization

23. This functional group is formed by the decomposition of amino acids

24. What arrangement does a carbon with sp² hybridisation have?

Down

1. A compound with a carbon ring is referred to as being what

2. What is the most electronegative element

4. Orbitals that have the same energy levels are called what

6. These types of functional groups can be reactive with a good nucleophile

8. This type of carbon atom is bonded to one other carbon

9. If a carbon atom is in a ring that contains 3 double bonds what is it called

10. What are cyclic esters referred to as

12. This type of functional group has a pK_a of around 5 what is it

13. What does the R stand for when displaying a molecule

14. Amino acids form what type of bond?

18. This functional group has a lower boiling point than a alcohol group