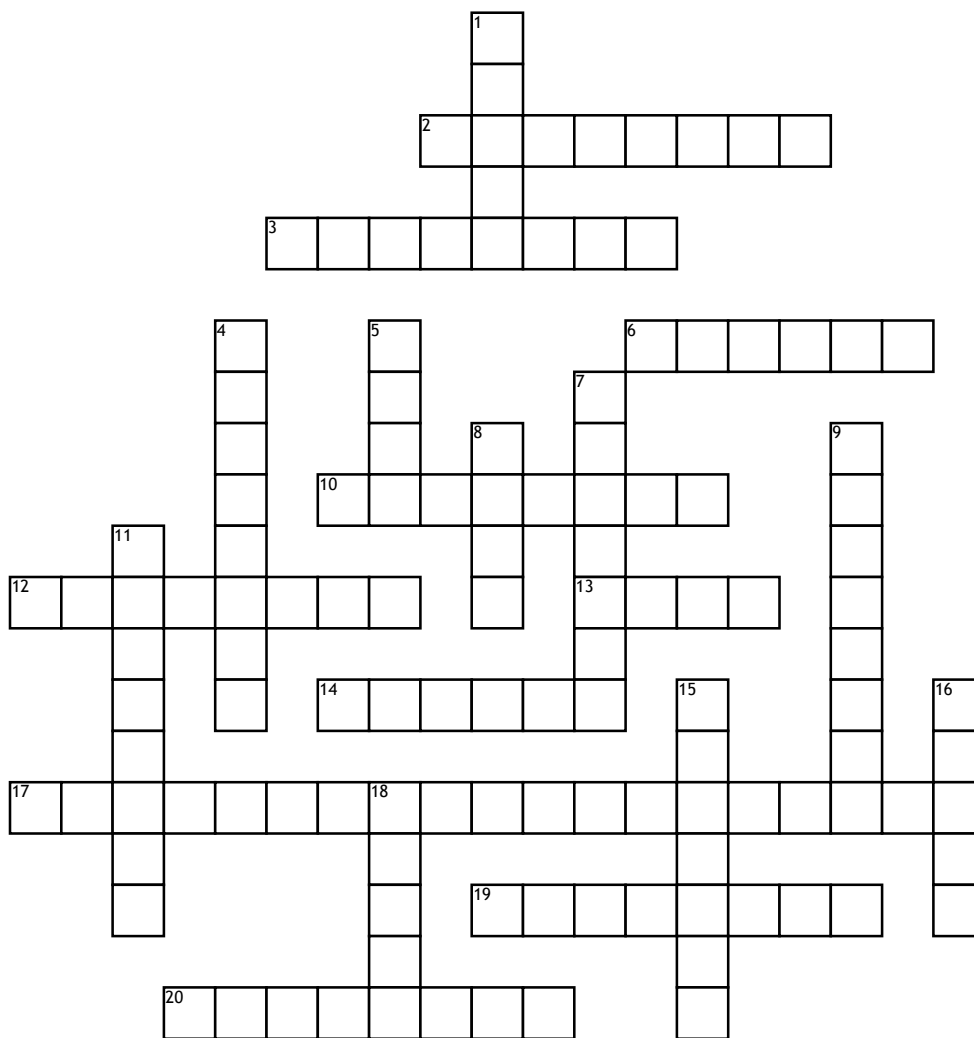


# Chemistry Crossword



## Across

2. As you move across a period (left to right), electron affinity tends to...?

3. \_\_\_\_\_ has the lowest electronegativity.

6. When electrons are not shared equally a \_\_\_\_\_ is formed.

10.  $[\text{Kr}] 5s^2 4d^{10} 5p^3$

12. As you move across a period (left to right), atomic radius tends to...?

13. True or false... The VSEPR theory says nothing about the relative strength/length of bonds.

14. When electrons give off a photon of light they are jumping to an energy level \_\_\_\_\_ to the nucleus.

17. This electron geometry has bond angles of 90 and 120.

19. This type of bonding involves the sharing of multiple electrons in a "sea" of electrons.

20. The head of a dipole arrow points to the \_\_\_\_\_ end of a dipole.

## Down

1. If the electronegativity difference between two atoms is greater than 2.0 then the bond is...?

4. This kind of bonding always involves the sharing of two electrons.

5. Nuclear shielding increases as you move \_\_\_\_\_ a group.

7. A double bond is \_\_\_\_\_ than a single bond.

8. Ionic compounds tend to have \_\_\_\_\_ melting points.

9. Energy is \_\_\_\_\_ to break bonds.

11.  $[\text{Ar}] 4s^2 3d^1$

15. A cation will be \_\_\_\_\_ than its respective neutral atom.

16. True or False... Lone pairs are slightly smaller than single bonds.

18. A photon checks into a hotel and is asked if he needs any help with his luggage. He says "no, I'm traveling \_\_\_\_\_."

## Word Bank

Metallic  
negative  
Closer  
High  
Covalent

Light  
True  
Required  
Ionic  
TrigonalBipyramidal

Dipole  
Francium  
Smaller  
Scandium  
Decrease

Antimony  
False  
Down  
Shorter  
Increase