

Learning Target: I can explain and demonstrate how to predict and write simple covalent chemical formulas and compound names.



**Predicting & Writing Covalent Chemical Formulas & Compound Names Video Notes**

1. What is our learning target for today?
2. What is a Covalent bond?
3. What is another name for a covalent bond?
4. Covalent bonds form between
5. What is the octet rule?
6. What are the three Keys for predicting and writing covalent chemical compounds?

1<sup>st</sup> –

2<sup>nd</sup> –

3<sup>rd</sup> –

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7. An ionic bond contains

A covalent bond contains

8. How can you tell if a bond is an ionic or covalent bond?

9. What type of bond is  $\text{H}_2\text{O}$ ? How can you tell?

10. What type of bond is  $\text{NaCl}$ ? How can you tell?

11. Why would we name hydrogen first in the chemical formula  $\text{H}_2\text{O}$ ?

12. What do we do to the element name for the O in  $\text{H}_2\text{O}$ ?

13. Write the prefixes for the number of atoms in the chart:

| Number of Atoms | Prefix |
|-----------------|--------|
| 1               |        |
| 2               |        |
| 3               |        |
| 4               |        |
| 5               |        |
| 6               |        |
| 7               |        |
| 8               |        |
| 9               |        |
| 10              |        |

14. How many hydrogen atoms are there in  $\text{H}_2\text{O}$ ?

How many oxygen atoms?

15. The chemical name for  $\text{H}_2\text{O}$  is \_\_\_\_\_

Explain why.

16. Why is  $\text{CCl}_4$  considered a covalent bond?

17. How many carbon atoms are there in  $\text{CCl}_4$ ?

How many Chlorine atoms?

18. Why don't we put mono in front of carbon if there is only one carbon atom in this formula?

19. You would any other prefix in front of the first element in a covalent bond except for?

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20. Explain why the chemical name for  $\text{CCl}_4$  is carbon tetrachloride.

21. What do you do when a question asks for the chemical formula for a chemical name?

1<sup>st</sup> – check to see if it is

2<sup>nd</sup> – if it's a covalent bond then you need

3<sup>rd</sup> – Why is the chemical formula for Carbon dioxide  $\text{CO}_2$ ?

**Bonus Question!**

**What is the correct chemical compound name and chemical formula for two nitrogen atoms combined with three oxygen atoms?**

Scan the QR Code to take your quiz

