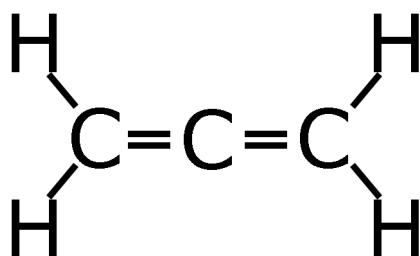


12. Write the chemical formula for silicon carbide.
13. Is this chemical formula written correctly following the rules we learned—KCl? If not, why not?
14. Write the chemical formula for the molecule made from 3 atoms of oxygen and two atoms of gallium.
15. Is this chemical formula correct following the rules we learned—Ba₂O? If not, why not?
16. What is wrong with this chemical formula—NGa?
17. How many cesium (Cs) and how many nitrogen (N) are in the compound cesium nitride?
18. Choose the ionic compounds: KCl, SiI₄, dilithium sulfide, MgO, Sr₃N₂, phosphorous pentafluoride.
19. Draw the structural diagram for silicon tetrafluoride.
20. Draw the electron dot structure for calcium bromide.
21. What is another systematic name that you could use for calcium bromide? Why can it have two different names and still be named correctly?
22. Cesium forms a compound with oxygen with the formula Cs₂O. Based upon what you know about the Periodic Table, is the structural diagram below correct or incorrect? If incorrect, why?



23. What is the name of this compound?



24. True or False: the reason prefixes must be included when naming molecular compounds ("prefix-first element prefix-second element") is that double and triple covalent bonds affect the overall number of atoms that a molecule can contain.
25. Name this compound, and indicate which element is the cation and which is the anion.

