

Build a Molecule activity

by Trish Loeblein
<http://phet.colorado.edu/>

Learning Goals: Students will be able to:

Review:

- Describe the differences between an atom and a molecule.
- Describe what the subscripts and coefficients indicate in chemistry notation.
- Use proper chemistry nomenclature.

New:

- Construct simple molecules from atoms.
- Write rules for how atoms are arranged given formulas for some common molecules
- Draw, name, and write formulas for some common molecules.

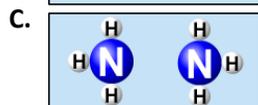
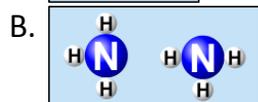
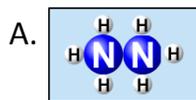
1. Which picture best displays atoms?



C. Both would be described as “atoms”

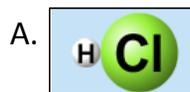
D. Both are better described as molecules

2. Which picture displays 2NH_3 ?



D. Two are correct

3. Which could be hydrochloric acid?



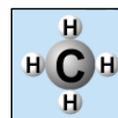
D. Two are correct

4. Which could be CO_2 ?



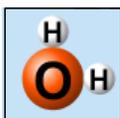
c. Both are stable molecules

5. What is the name of this molecule?



- A. Methane
 B. Tetrahydrogen carbide
 C. Ammonia
 D. Water

6. What is the name of this molecule?



- A. Dihydrogen oxide
- B. Carbon dioxide
- C. Ammonia
- D. Water

7. What is the name of this molecule?



- A. Dichloride
- B. Dichlorine
- C. Chlorine
- D. This is not a stable molecule