

Chemistry

Name: _____

Electron Dot (Lewis) Structures

Date: _____ Per: _____

1. Electron dot structures can be used to diagram: ionic compounds covalent compounds
Please circle the correct answer(s)

2. What are the five steps to follow when drawing electron dot structures of a molecule?

1.

2.

3.

4.

5.

3. Please draw the lewis structures for the following compounds.

a. hydrogen (H_2)

b. nitrogen (N_2)

c. methane (CH_4)

d. ammonia (NH_3)

- e. carbon dioxide (CO_2)
 - f. phosgene (Cl_2CO)
 - g. water (H_2O)
4. Here are some more challenging structures. Try to draw the structure of each one and write a sentence about what makes it different from the examples in question 3.
- a. ozone (O_3)
 - b. ammonium ion (NH_4^+)
 - c. hydrogen peroxide (H_2O_2)
 - d. carbonate ion (CO_3^{2-})
 - e. ethane (C_2H_6)