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Chemistry 11 LEWIS DOT STRUCTURES

Lewis DOT Structures of IONIC	compounds	are easy	/ to	construct	
HERE ARE THE RULES:					

1.

2.

Example 1. Draw the Lewis Structure of $MgCl_2$. Step 1.

Step 2.

Example 2. Draw the Lewis Structure for each of the following compounds:

a. LiBr

b. AIF₃

c. BaO

d. Na₂S

Him Cun O

Lewis DOT Structures of **COVALENT compounds** are somewhat more difficult to construct: HERE ARE THE RULES FOR THOSE THAT OBEY THE OCTET RULE

1.

2.

3.

4.

5.

Example 3. Draw the Lewis Structure for CHO₂ :

Step 1

Step 2.

Step 3.

Step 4.

Step 5.

Example 4. Draw the Lewis Structure for HOPO: H IIII O IIII P IIII O Step 1.
Step 2.
Step 3.
Step 4.
Step 5.
COVALENT compounds that VIOLATE the OCTET RULE A. In addition to, the atoms, and are exceptions as they have than a full octet when they form covalent compounds.
→ These atoms tend to
Example 5. Draw the Lewis Structure for BF ₃ : F 1111 B 1111 F Step 1.
Step 2.
Step 3.
Step 4.
Step 5.
B. Elements in the and periods of the periodic table frequently attain than a full octet when they form covalent compounds. → Therefore, the central atom will end up with than eight valence electrons
Example 6. Draw the Lewis Structure for PCl ₅ : Step 1. Cl, P Cl Cl Cl
Step 2.
Step 3.
Step 4.