Lewis Structure Worksheet
Some guided practice examples

HF
1. How many valence electrons:

> H x 1   _____
>
> F x 1   + _____
>
> Charge   + _____   (careful about signs)

Total number of Valence electrons   = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____

4. Total number of Valence electrons   _____

    number of bonding electrons used   - _____

    number of electrons remaining   = _____

5. Place remaining electrons around skeletal structure:

6. CHECK

       How many valence electrons for H: _____

       How many valence electrons for F: _____

O_2
1. How many valence electrons:

> O x 2   _____
>
> Charge   + _____   (careful about signs)

Total number of Valence electrons   = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____

4. Total number of Valence electrons   _____

    number of bonding electrons used   - _____

    number of electrons remaining   = _____

5. Place remaining electrons around skeletal structure:

6. CHECK

       How many valence electrons for O: _____

       How many valence electrons for O: _____

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OF_2

1. How many valence electrons:

O x __ _____
F x __ + _____
Charge + _____ (careful about signs)

Total number of Valence electrons = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____
4. Total number of Valence electrons _____
   number of bonding electrons used - _____
   number of electrons remaining = _____
5. Place remaining electrons around skeletal structure:

6. CHECK

How many valence electrons for O: _____
How many valence electrons for F: _____ (1st)   F: _____ (2nd)

ClO_2^-

1. How many valence electrons:

O x __ _____
Cl x __ + _____
Charge + _____ (careful about signs)

Total number of Valence electrons = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____
4. Total number of Valence electrons _____
   number of bonding electrons used - _____
   number of electrons remaining = _____
5. Place remaining electrons around skeletal structure:

6. CHECK

How many valence electrons for Cl: _____
How many valence electrons for O: _____ (1st)   O: _____ (2nd)

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CO_3^{2-}

1. How many valence electrons:

$$O \ x \ \underline{\quad} \qquad \underline{\qquad}$$
$$C \ x \ \underline{\quad} \quad + \ \underline{\qquad}$$
$$Charge \quad + \ \underline{\qquad} \quad \text{(careful about signs)}$$

Total number of Valence electrons $\quad = \underline{\qquad}$

2. Draw skeletal structure:

3. Count number of bonding electrons used: $\underline{\qquad}$
4. Total number of Valence electrons $\qquad \underline{\qquad}$
   number of bonding electrons used $\qquad - \underline{\qquad}$
   number of electrons remaining $\qquad = \underline{\qquad}$
5. Place remaining electrons around skeletal structure:

6. CHECK

How many valence electrons for C: $\underline{\qquad}$

How many valence electrons for O: $\underline{\qquad}$ (1st)   O: $\underline{\qquad}$ (2nd) O: $\underline{\qquad}$ (3rd)

$POCl_2$

1. How many valence electrons:

$$P \ x \ \underline{\quad} \qquad \underline{\qquad}$$
$$O \ x \ \underline{\quad} \quad + \ \underline{\qquad}$$
$$Cl \ x \ \underline{\quad} \quad + \ \underline{\qquad}$$
$$Charge \quad + \ \underline{\qquad} \quad \text{(careful about signs)}$$

Total number of Valence electrons $\quad = \underline{\qquad}$

2. Draw skeletal structure:

3. Count number of bonding electrons used: $\underline{\qquad}$
4. Total number of Valence electrons $\qquad \underline{\qquad}$
   number of bonding electrons used $\qquad - \underline{\qquad}$
   number of electrons remaining $\qquad = \underline{\qquad}$
5. Place remaining electrons around skeletal structure:

6. CHECK

How many valence electrons for P: $\underline{\qquad}$

How many valence electrons for O: $\underline{\qquad}$

How many valence electrons for Cl: $\underline{\qquad}$ (1st)   Cl: $\underline{\qquad}$ (2nd)

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NH_4^+

1. How many valence electrons:

<div style="margin-left:2em">

N x __   _____

H x __   + _____

Charge   + _____   (careful about signs)

</div>

Total number of Valence electrons   = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____

4. Total number of Valence electrons   _____

   number of bonding electrons used   - _____

   number of electrons remaining   = _____

5. Place remaining electrons around skeletal structure:

6. CHECK

   How many valence electrons for N: _____

   How many valence electrons for H: _____ (1st) H: ___ (2nd)

                           H: _____ (3rd) H: ___(4th)

C_2H_4

1. How many valence electrons:

<div style="margin-left:2em">

C x __   _____

H x __   + _____

Charge   + _____   (careful about signs)

</div>

Total number of Valence electrons   = _____

2. Draw skeletal structure:

3. Count number of bonding electrons used: _____

4. Total number of Valence electrons   _____

   number of bonding electrons used   - _____

   number of electrons remaining   = _____

5. Place remaining electrons around skeletal structure:

6. CHECK

   How many valence electrons for C:_____ (1st) C:____ (2nd)

   How many valence electrons for H: _____ (1st) H: ___ (2nd)

                           H: _____(3rd) H: ___(4th)