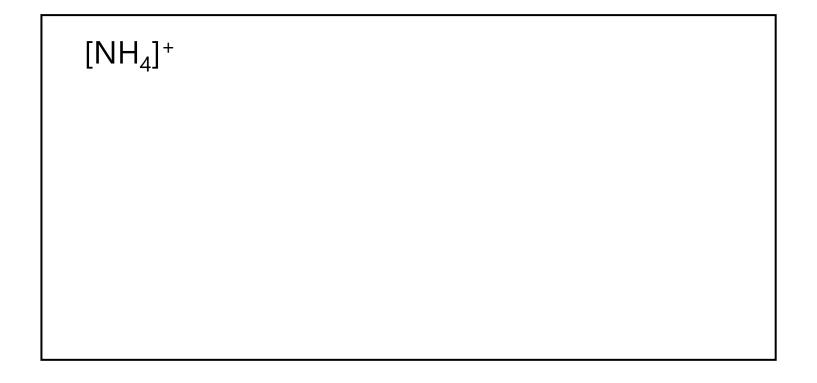
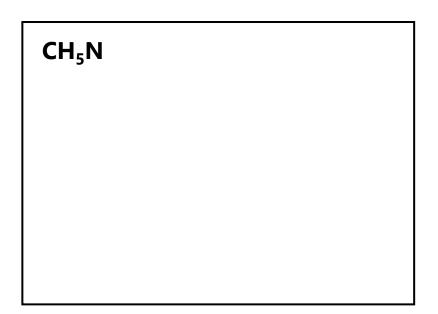
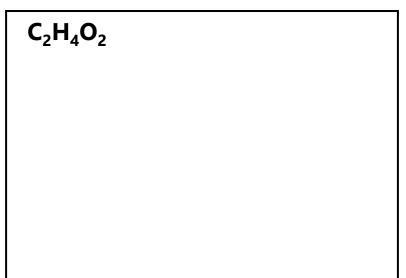
Q1: Assigning Formal Charge (FC) to each atom

- 1. Draw Lewis Structure
- 2. Determine neutral valence of each atom
- 3. Assign each atom half of bonding electrons + lone pairs
- 4. FC = valence electrons lone pair electrons (1/2) bonding electrons

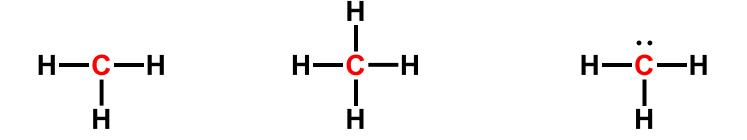


Write the Lewis structure for the following formula:

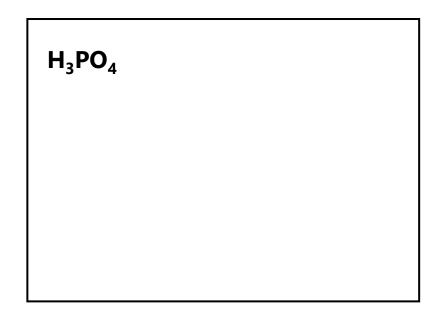




Predict the formal charge on each of the highlighted C atom



Write the Lewis structure for the following formula:



Draw the resonance structures for the following molecules. Circle the most contributing structure – describe why this is most contributing?

If all the structures are equally contributing then circle all the resonance structures

 NO_3

 SO_2

Practice VSEPR Question 6

Draw Lewis Structure, and determine the **geometry around the central atom** of the following molecule

HCN

 NO_2^-

Practice VSEPR Question 7

Draw the most stable Lewis Structure, determine electron groups (electron geometry), bonding groups (molecular geometry) and shape around highlighted C and N atoms.

CH₃NCO

Practice VSEPR Question 8

Draw Lewis Structure, determine electron groups (electron geometry), bonding groups (molecular geometry) and shape (P is the central atom)

POCI₃

Practice VSEPR 9 (Concept Video 15)

Draw Lewis Structure, determine electron groups (electron geometry), bonding groups (molecular geometry) and shape

[ICl₂]-

Practice Question 10 (Concept Video 15) Which of the following molecules have a net dipole moment?

