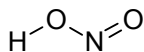
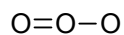
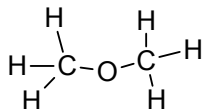
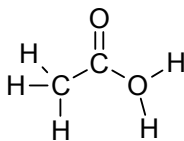
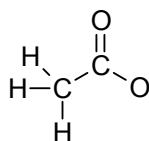
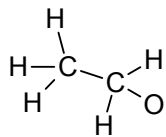
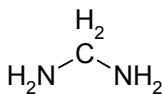
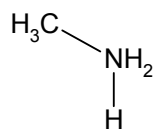
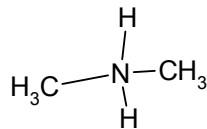
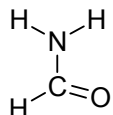
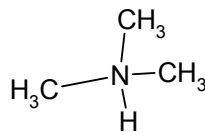
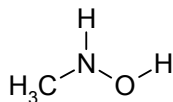


## Bonds & Charges

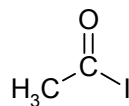
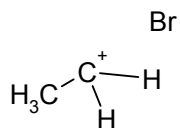
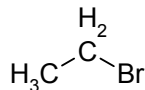
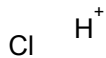
1. Put the correct charges on the oxygen atoms



2. Put the correct charges on the nitrogen atoms

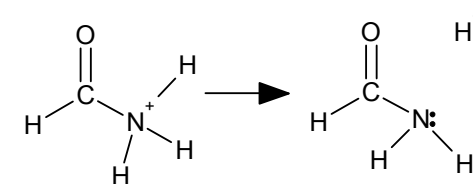
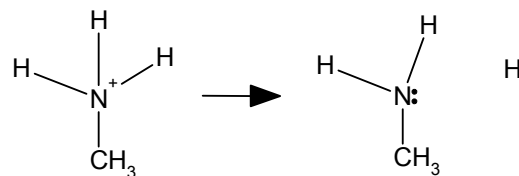
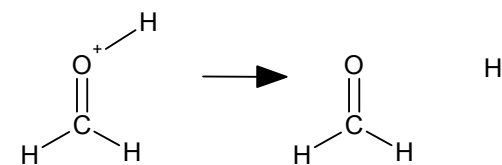
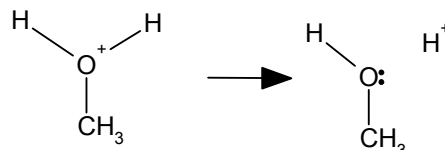


3. Put the correct charges on the Br, Cl or I atom

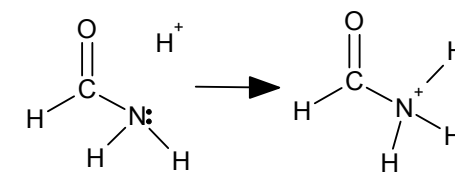
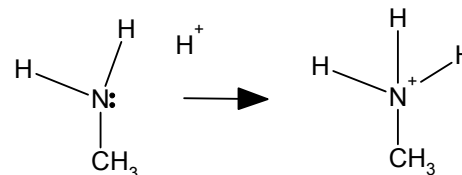
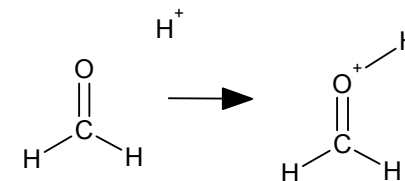
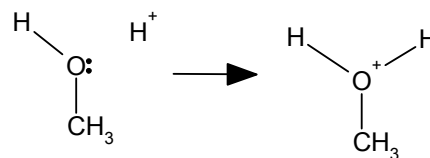


## Removing H<sup>+</sup> / Adding H<sup>+</sup>

1. Draw the curly arrows in these reactions

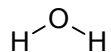
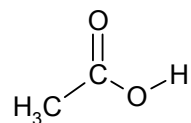
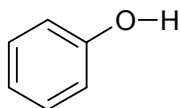
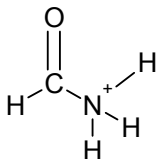
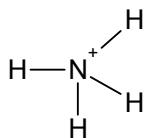
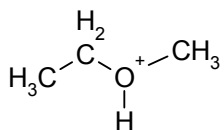
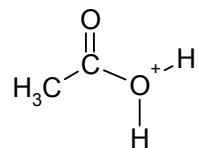


2. Draw the curly arrows to show H<sup>+</sup> being added



### Removing H<sup>+</sup> / Adding H<sup>+</sup> (cont.)

3. Draw the curly arrows for removing H<sup>+</sup>. Then draw out the products formed.



### Adding H<sup>+</sup>

4. Draw H<sup>+</sup> next to each molecule. Put a lone pair on the O or N atom. Draw the curly arrow for adding H<sup>+</sup>. Then draw out the product that forms.

