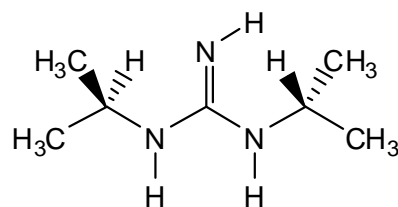
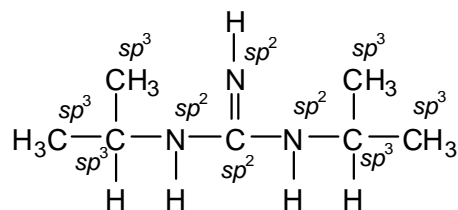
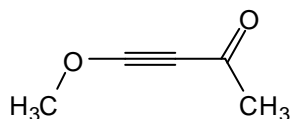
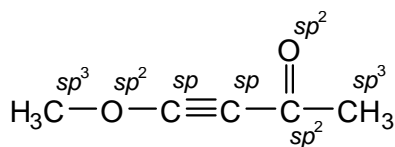
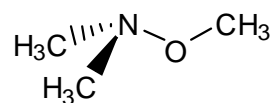
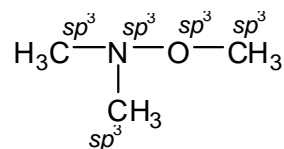
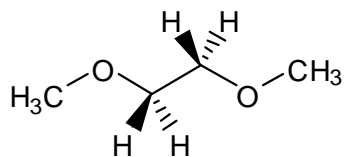
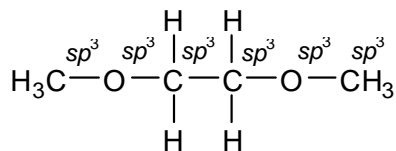


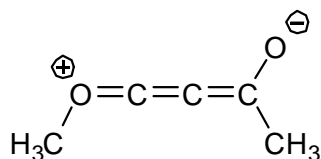
### Workshop 6 Solutions

#### Hybridization and Molecular Shape

1.



Why  $sp^2$  at the leftmost oxygen?  
You can draw a resonance structure that pushes that oxygen's electrons rightward, cascading onto the carbonyl:



All nitrogens are involved in resonance structures that make them  $sp^2$ .

2.

