Announcements – Lecture XI – Thursday, Oct 9h

1. **Third Lab – Saturday, October 11th … 1-4pm … ISB 155/160 (A-E)**

   a) *Print lab prior to coming to lab -- use the 'Print Friendly Version' located on the top left hand side of the page – this is the version that contains the 'Data Sheet' that you will hand in upon completing the lab.*

   b) *Second set of Lab Owls will appear in Owl after this lab. There are a total of 4 sets of Lab Owls and they are worth 25% of the Lab Grade.*

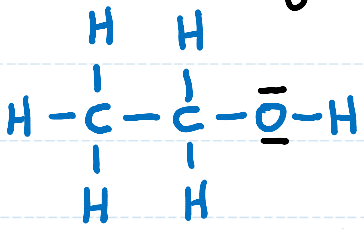
2. 

iClicker:
Choose any letter: A-E

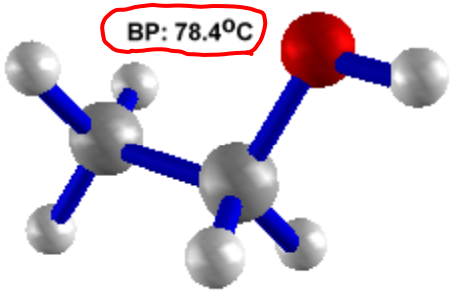
3. **No class – Tuesday, October 14th – an Academic Monday**

CH_3CH_2OH ... "C_2H_6O"

↳ Alcohol functional group

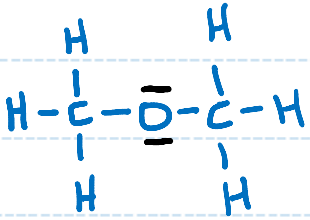


Ethanol.

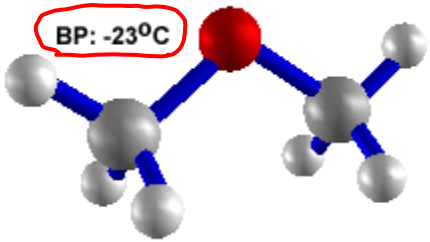


CH_3OCH_3 ... "C_2H_6O"

↳ Ether

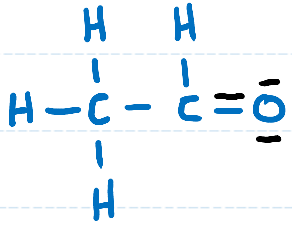


Dimethylether

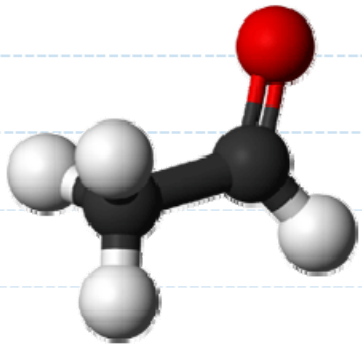


CH_3CHO

↳ aldehyde

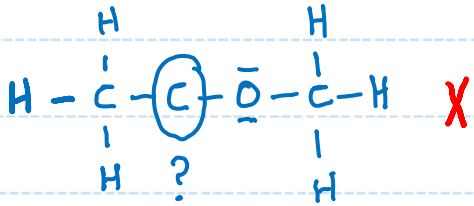


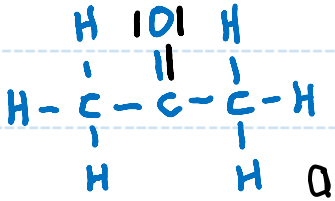
Acetaldehyde



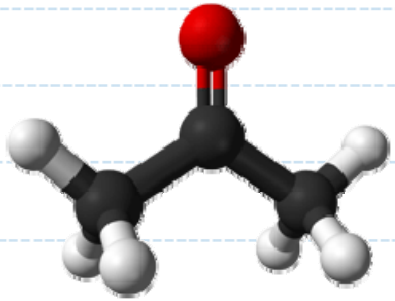
CH_3COCH_3

↳ Ketone



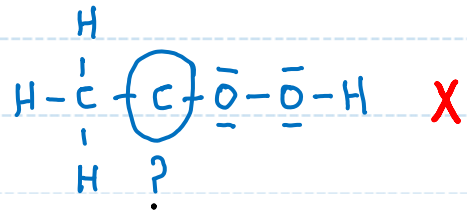


Acetone

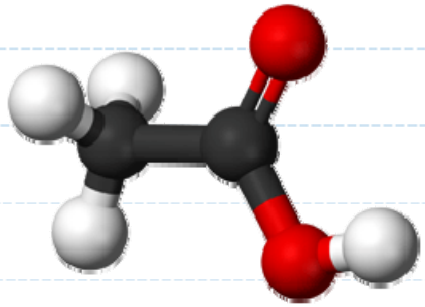


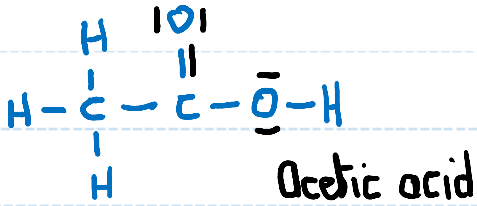
CH_3COOH

Carboxilic acid



X

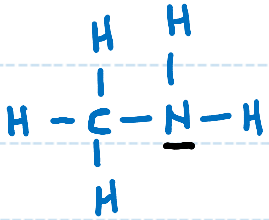




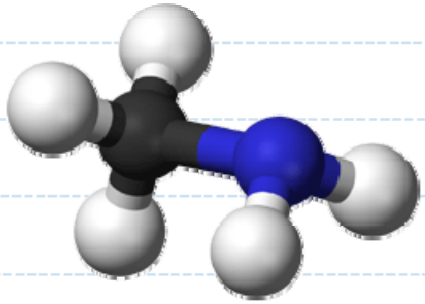
Acetic acid

CH_3NH_2

Amine (base)

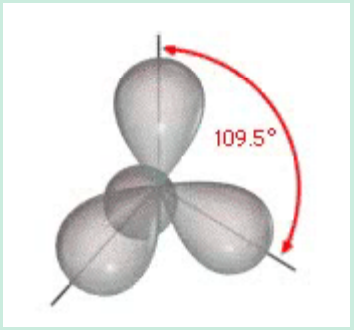
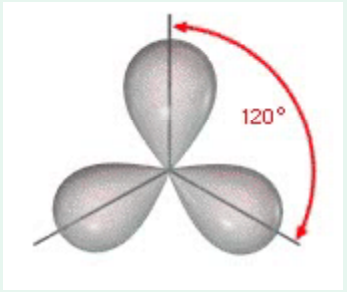
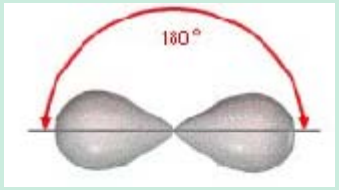


Methylamine



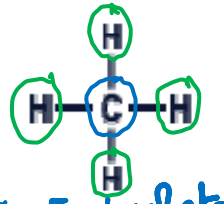
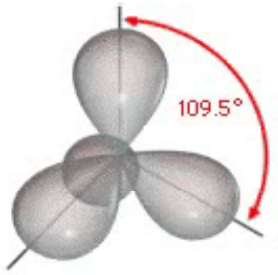
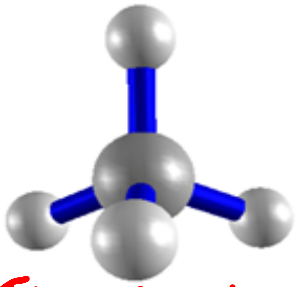
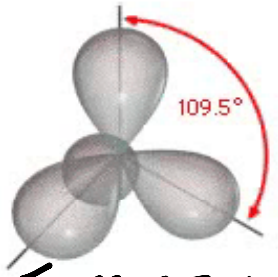
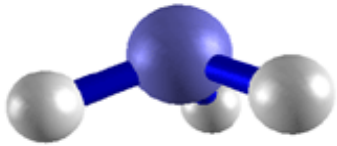
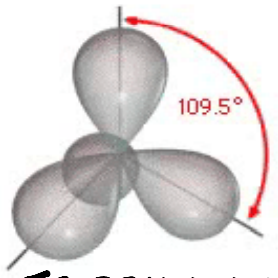
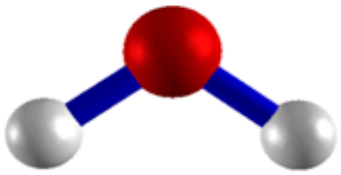
3.10 Molecular Geometries

Balloons – Shapes – Angles

No of Balloons	Shape	Name	Angle
4		TETRAHEDRON	~109°
3		TRIGONAL PLANAR	120°
2		LINEAR	180°

3.10 Molecular Geometries and Bond Angles → ELECTRON PAIR GEOMETRY

Molecular Geometry Worksheet ... Fall 2008 ... Whelan ... Page 1

Lewis Structure	Classification	X+E	Parent Geometry	Molecular Geometry	Bond Angle	Polarity
CH_4  A : Central atom X : attachments on A E: lone pairs on A	AX_4E_0	4	 TETRAHEDRON	 TETRAHEDRON	~109°	
NH_3 	AX_3E_1	4	 TETRAHEDRON	 TRIGONAL PYRAMID	~109°	
H_2O 	AX_2E_2	4	 TETRAHEDRON	 ANGULAR/BENT 109°	~109°	