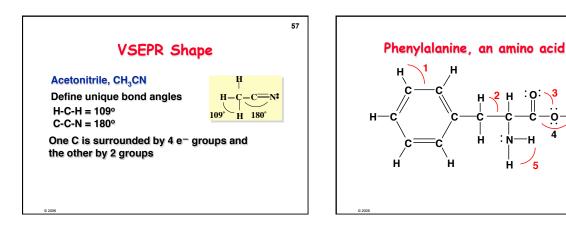
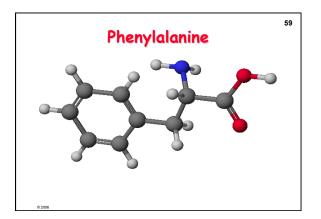


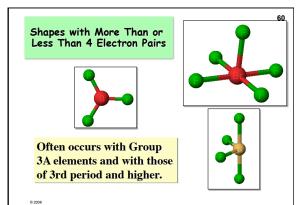
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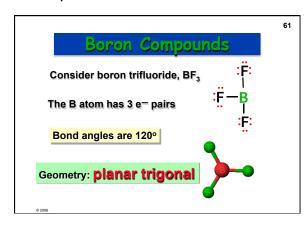
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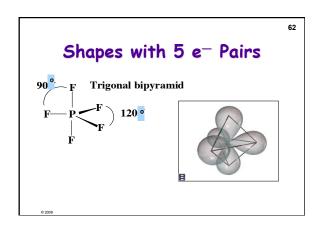


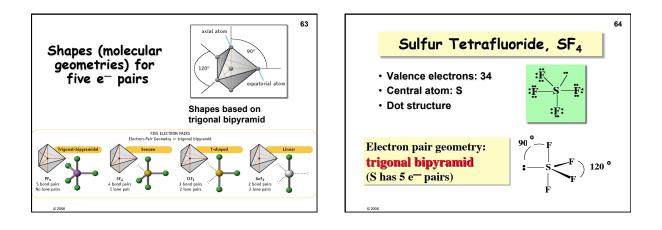


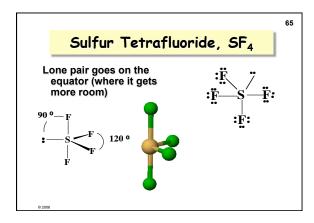


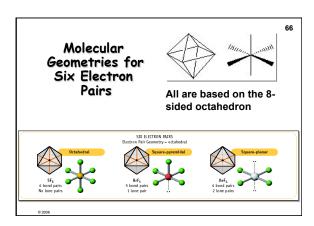
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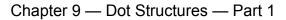


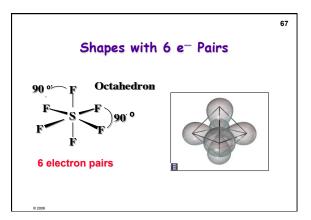


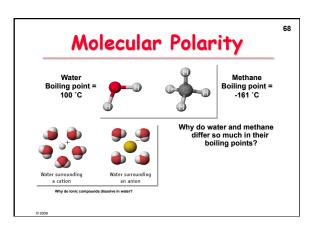


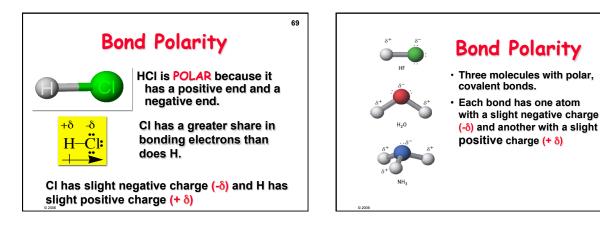


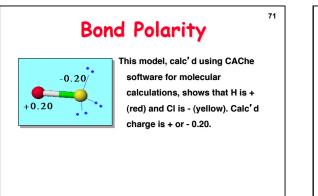


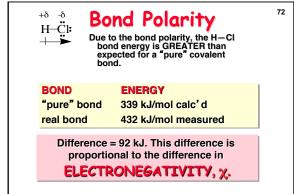


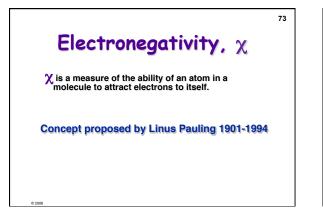


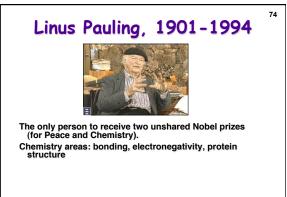


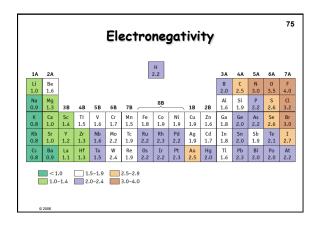


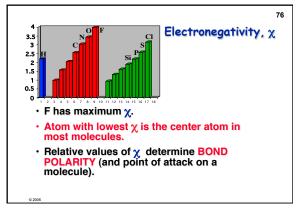


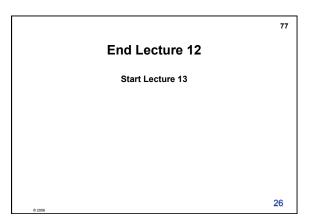


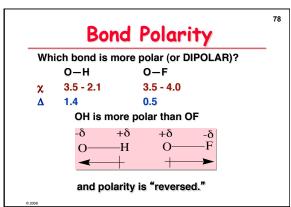


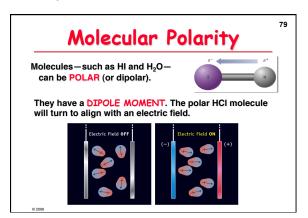


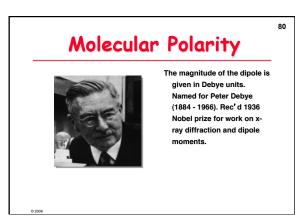




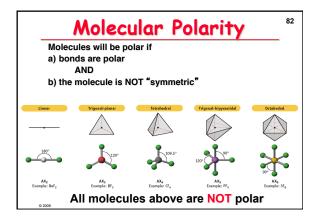


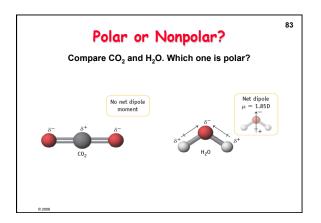


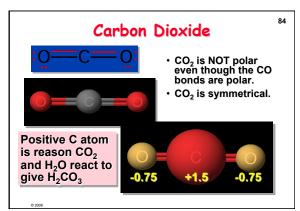


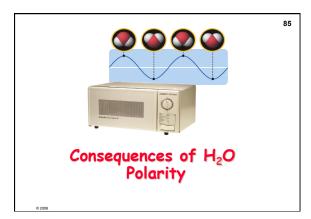


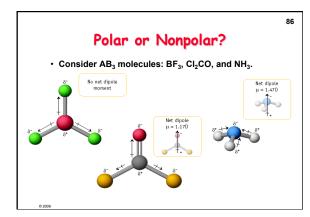
Molecule (AB)	Moment (µ, D)	Geometry	Molecule (AB ₂)	Moment (µ, D)	Geometry
HF	1.78	linear	H ₁ 0	1.85	bent
на	1.07	linear	H ₂ S	0.95	bent
HBr	0.79	linear	H23 SO ₂	1.62	bent
н	0.38	linear	302 CO2	0	linear
н,	0	linear	602	•	tinear
Molecule (AB ₃)	Moment (µ, D)	Geometry	Molecule (AB ₄)	Moment (µ, D)	Geometry
NH ₂	1.47	trigonal-pyramidal	CH	0	tetrahedral
NF ₂	0.23	trigonal-pyramidal	CH3CI	1.92	tetrahedral
BFa	0	trigonal-planar	CH ₂ Cl ₂	1.60	tetrahedral
			CHCla	1.04	tetrahedral
			CCL	0	tetrahedral

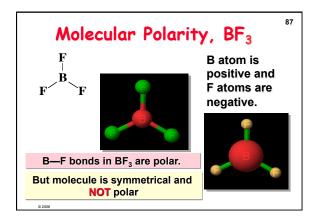


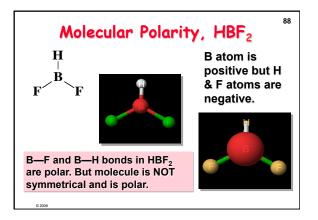


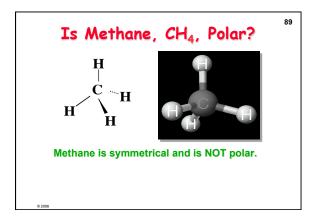


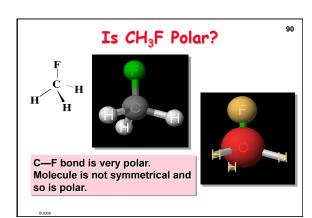


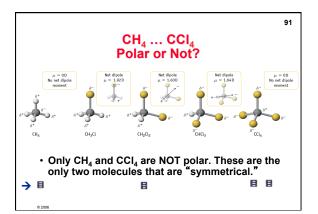


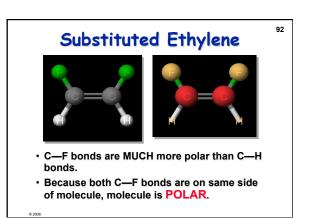


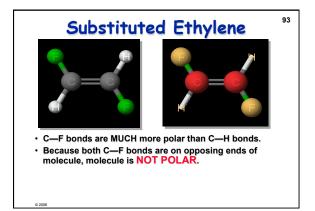


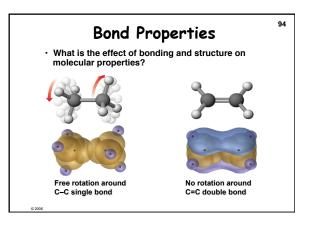


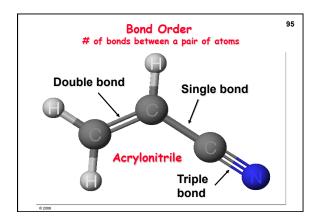


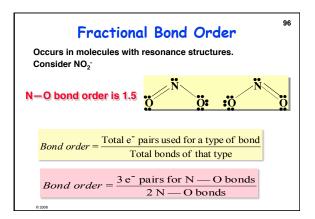


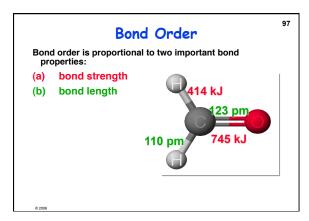


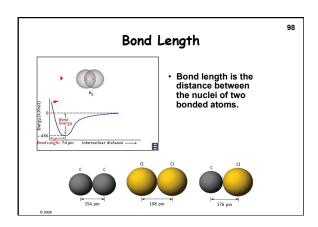


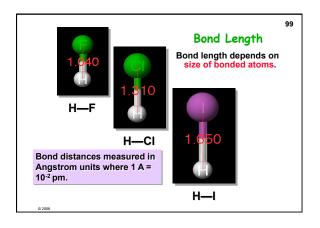


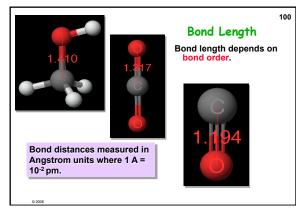


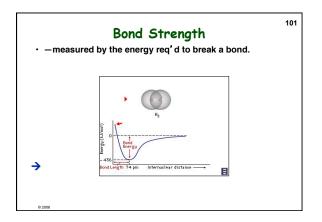


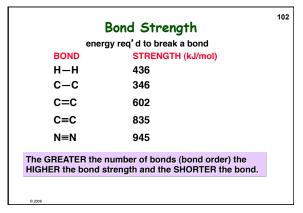






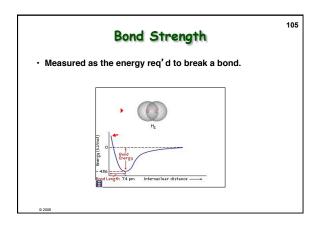






Tab	le 9.10	Some /	Average S	Single- an	d Multipl	e-Bond E	nergies	(kJ/mo	ol)*		
		Single Bonds									
	н	с	N	0	F	Si	Р	S	CL	Br	I
н	436	413	391	463	565	328	322	347	432	366	299
С		346	305	358	485	_	_	272	339	285	213
N			163	201	283	_	_	_	192	_	_
0				146	_	452	335	-	218	201	201
F					155	565	490	284	253	249	278
Si						222	-	293	381	310	234
Р							201	_	326	_	184
S								226	255	_	_
Cl									242	216	208
Br										193	175
Ι											151
			_		Multiple	Bonds		_			
			N	— N	418	C = C	610				
			N	— N	945	c = c	835				
			C	— N	615	c = c	745				
			C	— N	887	c = c	1046				
			0	= 0 (in 0;) 498						

Bond Strength					
Bond	Order	Length	Strength		
но-он	1	142 pm	146 kJ/mol		
0=0	2	121	498		
io i	. 1.5	128	ş		
© 2006					



• M		Bond Strength energy reg'd to break a bond.	106
		chorgy rod a to broak a bolla.	
•	BOND	STRENGTH (kJ/mol)	
	H—H	436	
	c-c	346	
	C=C	602	
	C∎C	835	
	N=N	945	
		number of bonds (bond order) the strength and the SHORTER the bond.	
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