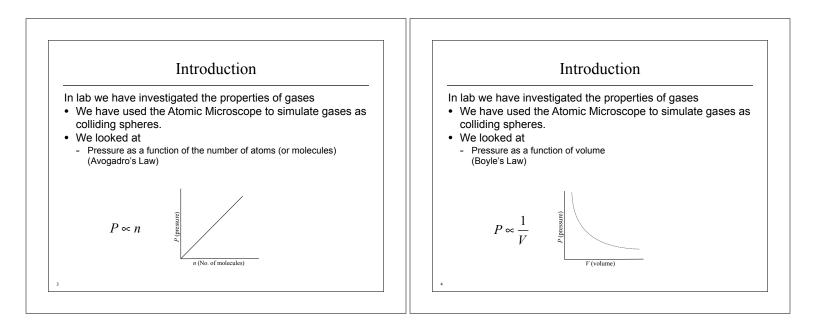
Chem 103, Section F0F Unit VII - States of Matter and Intermolecular Interactions Lecture 19

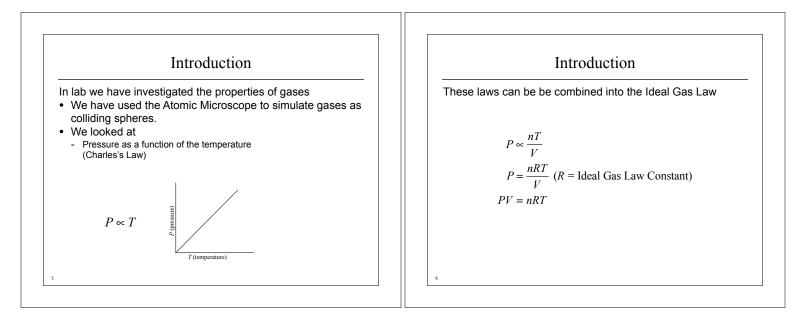
- Physical states and physical changes
- Description of phase changes
- Intermolecular interactions
- Properties of Liquids
- Unique Properties of water

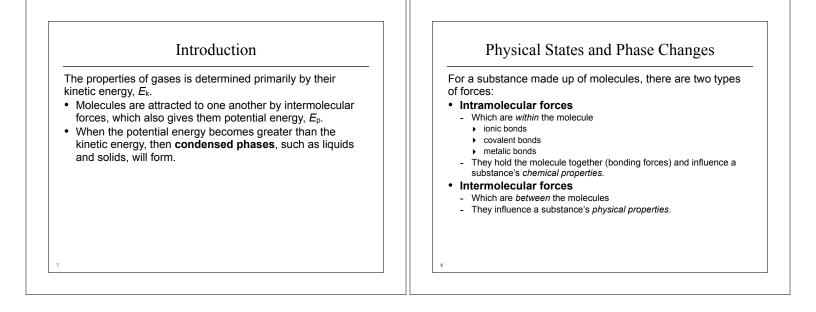
Lecture 18 - Covalent Bonding

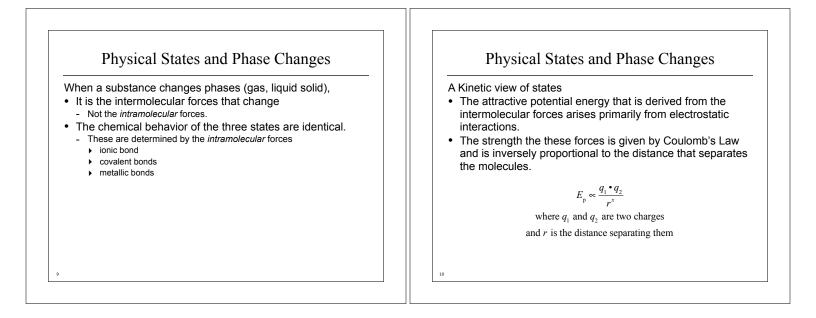
Reading in Silberberg

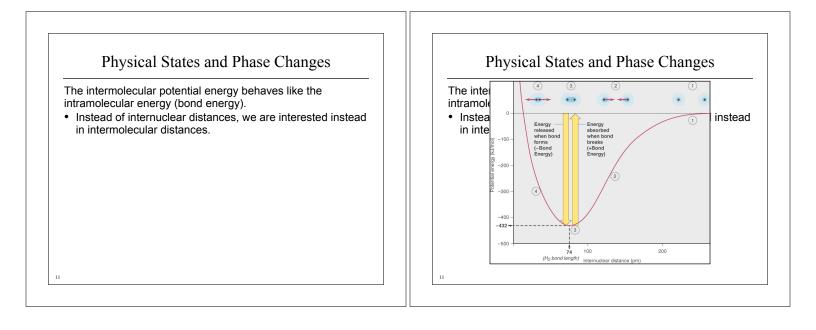
- Chapter 12, Section 1
 - An Overview of Physical States and Phase Changes
- Chapter 12, Section 2 (pp. 440-443)
 Quantitative Aspects of Phase Changes
- Chapter 12, Section 3
 - Types of Intermolecular Forces

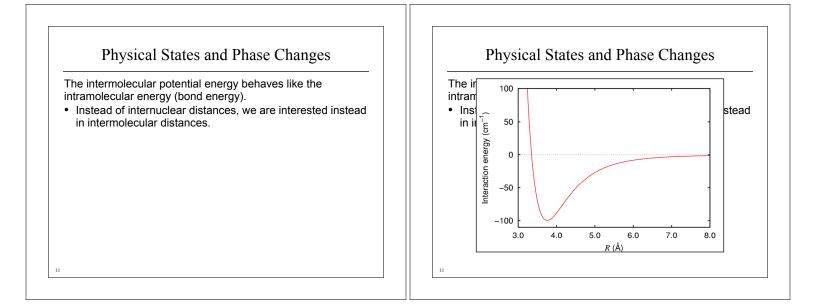


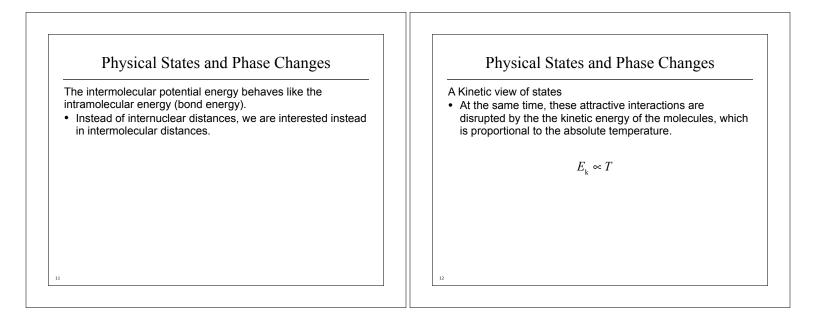












Physical States and Phase Changes	r i i i i i i i i i i i i i i i i i i i	Physical States and Phase Changes		
inetic view of states the three common states of matter are determined by the nterplay between kinetic energy, E_k , and potential energy, E_p .	The th	view of states ree common states of ma ay between kinetic energy		
Gas: <i>E</i> _k >> <i>E</i> _p	Table 12	A Macroscopic Comparison of Ga	ses, Liquids, and Sol	ids
Liquid: $E_{\rm k} \approx E_{\rm p}$	State	Shape and Volume	Compressibility	Ability to Flow
Solid: $E_k << E_p$	Gas	Conforms to shape and volume of container	High	High
	Liquid	Conforms to shape of container; volume limited by surface	Very low	Moderate
	Solid	Maintains its own shape and volume	Almost none	Almost none
	Solid		Almost none	Almost n

