	20.	Can energy be added without changing temperature? Explain. (Hint consider boiling water being heated cice melting)
		Yes, during phase changer, energy goes to break bonds
	21.	Matter in which the particles are free to move in all directions until they have spread evenly throughout their
J. 2. 2. 2. 2. 2. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		container is a
		a. solid c. buoyant
		b. liquid d. gas
		Most matter when heated.
	23.	As a sample of matter is heated, its particles
		a. stop moving c. move more quickly
		b. move more slowly d. are unaffected
-		What instrument is normally used to measure atmospheric pressure?
	25.	What is the SI unit of pressure?
		a. candela c. pascal
A		b. mole d. newton
A	26.	According to the kinetic theory, collisions between molecules in a gas
		a. are perfectly elastic c. never occur
		b. are inelastic d. cause a loss of total kinetic energy
*******	27.	Convert 1 atm to kPa late 101.3 kPa lol.3 kPa
	28.	Standard conditions when working with gases are defined as O C and 101.3 kPa
C	29.	
		a. the walls of the container
		b. the vacuum maintained in the container
		c. the simultaneous collisions of fast-moving particles in the container
		d. atmospheric pressure acting on the outside walls of the container
	30.	Convert 152 mm Hg to atm: 152 mmHg 1 atm = 0.200 atm
Kelvin	31.	With which temperature scale is temperature directly proportional to average kinetic energy?
B		What happens to the temperature of a liquid as it evaporates?
	32.	a. It increases. c. It does not change.
		b. It decreases. d. The change cannot be determined.
r	33.	Describe the motion of particles in a piece of steel: Vibrative
8	2.4	
N	34.	
	35.	Which of the following elements has the ability to undergo sublimation?
		a. oxygen c. sodium b. carbon d. iodine
0	21	
15	36.	Which of the following is an example of a phase?
		a. pressureb. water vaporc. temperatured. triple point
		b. water vapor d. triple point

Name:	<u>CALVIN</u> <u>Date: 2/25/13</u> Hour:
Chemistr Matching	ry Ch.13 REVIEW
evaporation 1.	vaporization at the surface of a liquid that is not boiling
	the temperature at which the vapor pressure of a liquid is equal to the external pressure
	Match each item with the correct statement below. a. kinetic theory d. barometer b. atmospheric pressure e. kinetic energy c. vapor pressure
7. 8. 8. 9.	All matter consists of tiny particles that are in constant motion. the energy an object has due to its motion a device used to measure atmospheric pressure the pressure resulting from the collision of atoms and molecules with objects a measure of the force exerted by a gas above a liquid
	Match each item with the correct statement below. a. unit cell b. crystal c. allotropes d. amorphous solid
3 12.	 a. There is no attraction between particles of a gas. b. Only particles of matter in the gaseous state are in constant motion. c. The particles of a gas collide with each other and with other objects. d. All of the statements are true.
16.	What is absolute zero? OK, lowest possible temp, all particle notion would stop
17.	What happens to the average kinetic energy of the particles in a sample of matter as the temperature of the sample is increased?
	Consider an iron cube and an aluminum cube. If the two cubes were at the same temperature, how would the average kinetic energy of the particles in iron compare with the average kinetic energy of the particles in aluminum? a. The average kinetic energy of the iron particles would be greater. b. The average kinetic energy of the aluminum particles would be greater. c. There would be no difference in the average kinetic energies. d. No determination can be made based on the information given.
19.	Which states of matter can flow?

gas + liquid