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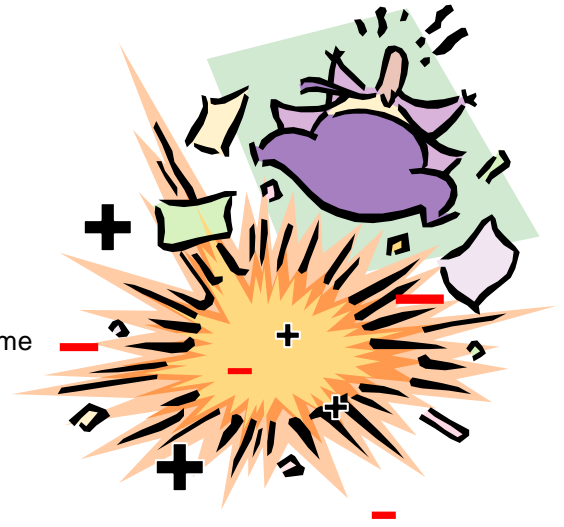
Phases and Phase Changes Classwork

PART ONE MATCHING: You may use a choice once, more than once, or not at all. You may even put more than one choice in a space.

Your choices are:

A. solid B. liquid C. gas D. plasma

- _____ particles are in a repeating pattern
- _____ has no definite shape and no definite volume
- _____ the particles flow around each other
- _____ the particles are in fixed positions
- _____ has no definite shape, but does have a definite volume
- _____ made up of “exploded” gas particles
- _____ particles fly freely and have space in between them
- _____ particles are packed loosely together
- _____ has a definite shape and a definite volume
- _____ the particles can only vibrate



PART TWO MATCHING: You may use a choice once, more than once, or not at all. You may even put more than one choice in a space.

Your choices are:

A. boiling B. condensation C. melting D. sublimation
E. freezing F. evaporation

- _____ when a solid changes to a liquid
- _____ when a gas changes into a liquid
- _____ energy is lost (the particles are losing energy)
- _____ a liquid is changing into a gas
- _____ ice cream on a hot day



PART THREE: MULTIPLE CHOICE: Answer these questions. Choose the best answer.

16. Which is **not** true about plasma...
- A. is made of exploded gas particles
 - B. does not have a definite shape or volume
 - C. can go back to a gas by losing energy (cooling down)
 - D. both A & B
17. During evaporation...
- A. the liquid particles become more energized and become gas particles
 - B. gas particles are created
 - C. both A & B
 - D. none of these
18. The Kinetic Theory of Matter says...
- A. "All particles are made of energy and are constantly in motion."
 - B. "All matter is made of particles that have a tiny amount of energy."
 - C. "All matter is made of tiny particles that are constantly in motion."
 - D. "All theories are made of tiny words that constantly have meaning."
19. Dry ice changes into a fog is an example of...
- A. melting
 - B. a solid changing in to a liquid
 - C. sublimation
 - D. condensation
20. Which of the following is an amorphous solid?
- A. liquid nitrogen
 - B. silly putty
 - C. gasoline
 - D. plywood
21. Deposition is when...
- A. a liquid changes into a gas
 - B. a solid changes into a liquid
 - C. a solid changes into a gas
 - D. none of these
22. The higher the temperature of an object...
- A. the more motion energy the particles of that object have
 - B. the faster the particles of that object are moving
 - C. both A & B
 - D. none of these
23. Thermal expansion...
- A. is how a thermometer works
 - B. is a way that particles in a substance get larger
 - C. increases the mass of an object as the object gets hotter
 - D. none of these