

Science 8
Matter on the Move
Unit 1 Topic 1 Research Questions

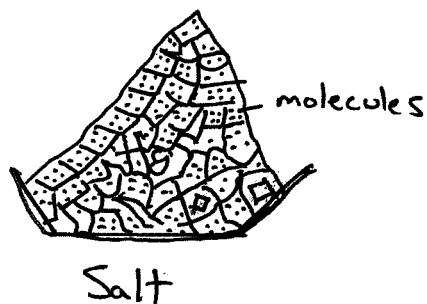
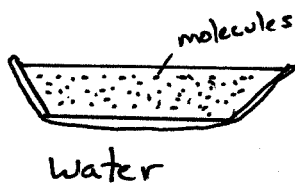
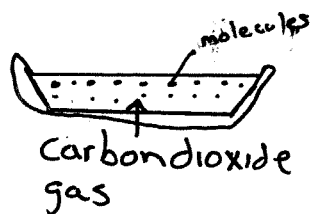
Name:

Date:

1.) What are the focussing questions for this topic ? 1 mark Page 4

2.) Why are both liquids and gases classified as fluids? 1 marks pg 6.

3.) Look at the three plates below. Describe why solids are not considered fluid, even if they can be poured like sand or salt. (1 mark) read pages 8 for the answer. Use the word "particles" or "molecules" in your answer



4.) Define:
A.) solid:

b.) Liquid:

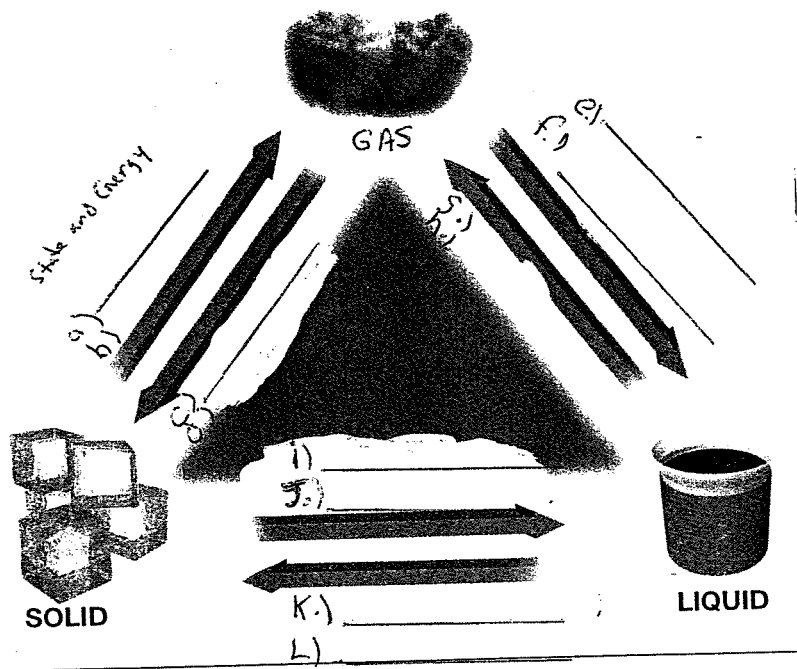
c.) Gas:

5.) Complete the Particle model of Matter (Key points, very important) page 8 (5 marks)

**The particle model of matter
involves these key ideas:**

1. _____
particles.
2. All particles in a _____
the same. Different pure substances
are made of different particles.
3. The particles have _____ between
them.
4. The particles are always in _____
vibrating, rotating, and (in liquids and
gases) moving from place to place.
The speed of the particles increases/
decreases when the _____
increases/decreases.
5. The particles in a substance are
attracted to one another. The _____
of the _____ depends on the
type of particle.

6.) A ice melting is a change of state (solid ice gains energy and changes to liquid water)
 Complete the diagram below and label where there is a gain or loss of energy during that change of state. Page 11 (6 marks -0.5 state change, 0.5 energy lost or gained)



7.) Sublimation is a state change from a solid to a gas or visa versa, without going through the liquid state. Give an example of sublimation that gains energy 1 mark
 page 11

8.) What is the Boiling point temperature of pure water at sea level and what is the freezing point of pure water? 2 marks

9.) Define the following terms:

a.) Fluids:

b.) Fluidity:

10.) Do Review questions page 12 q 2, 3,5 (3 marks)
Use space below to answer questions