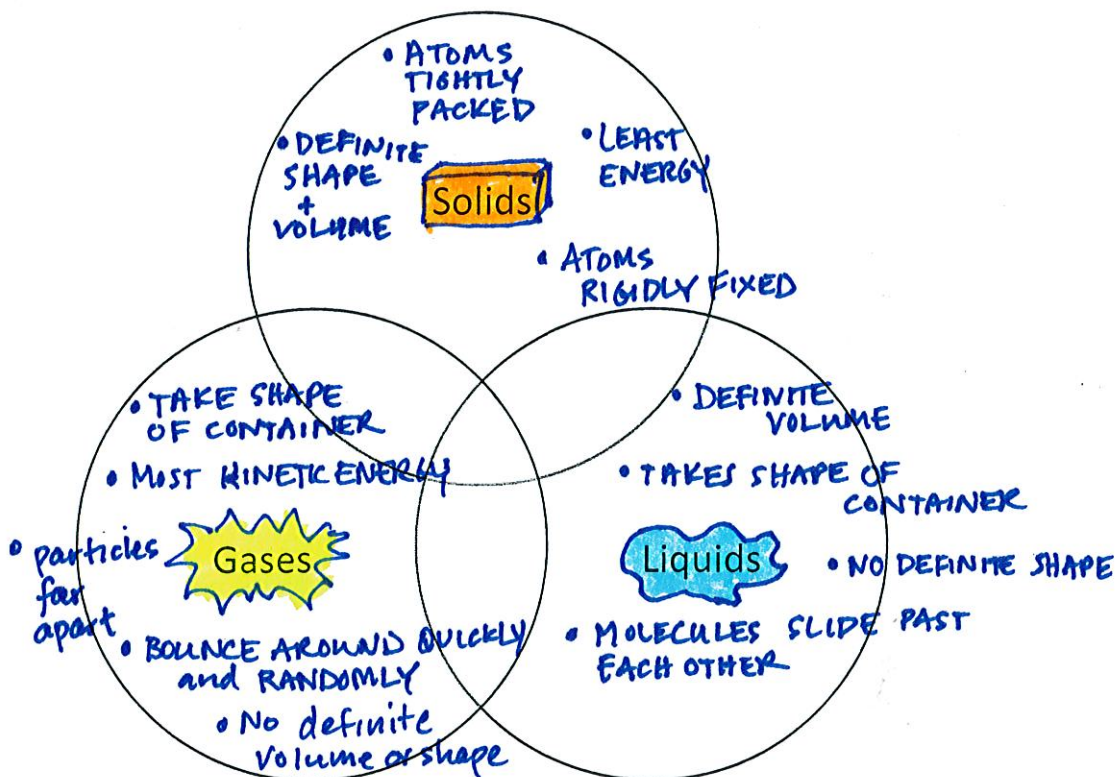


Phase Change Test Study Guide

Name: EARLS

1. What are the three main states of matter? SOLIDS, LIQUIDS, GASES
2. Fill in the Venn diagram about solids, liquids, and gases. Make sure to include information about volume and shape.



3. In the boxes below, draw the spacing between particles for solids, liquids, and gases.

Solids	Liquids	Gases

4. Fill in the chart below:

Phase Change	From - To	Energy	Heat
1. <u>CONDENSATION</u>	Gas - Liquid	<u>Decrease/LOSS ⊖</u>	Loss ⊖
2. <u>DEPOSITION</u>	<u>Gas → solid</u>	<u>decrease ⊖</u>	<u>LOSS ⊖</u>
3. <u>EVAPORATION</u>	Liquid - Gas	Increase	<u>GAIN ⊕</u>
Melting	<u>SOLID → LIQUID</u>	<u>INCREASE</u>	<u>GAIN ⊕</u>
Sublimation	<u>SOLID → GAS</u>	<u>INCREASE</u>	<u>GAIN ⊕</u>
<u>Freezing</u>	Liquid to solid	<u>decrease</u>	<u>LOSS ⊖</u>

5. What happens to the energy of a substance when you add heat to it? Energy increases; molecules move faster
6. What happens to the energy of a substance when you take away heat from it? decreases
7. List the order of the 3 main states of matter from highest energy state to lowest energy state. molecules move slower
8. List 3 examples of solids. WOOD, BOOK, TABLE
9. List 3 examples of liquids. APPLE JUICE, SMART H<sub>2</sub>O, LEMONADE
10. List 3 examples of gases. AIR, We Exhale CO<sub>2</sub>, O<sub>2</sub> (Oxygen)
11. What is plasma and how is it different from the other states of matter?

A gas with a lot of energy; made of positively and negatively charged particles, occurs naturally in stars and lightning

PLASMA