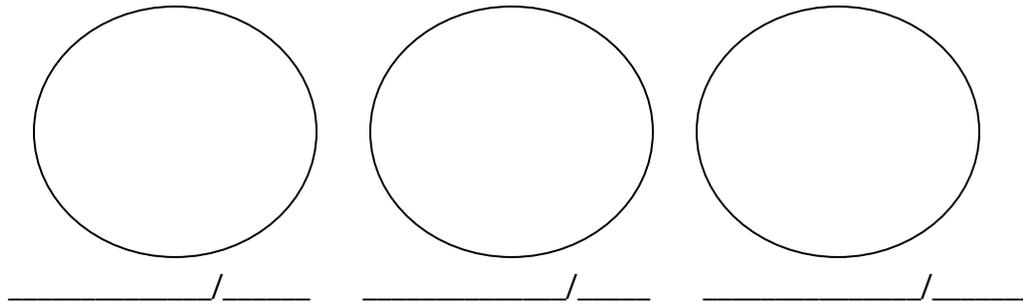


a) Show matter in its three most common states, solids, liquids, gases. b) Show how the atoms are spaced and indicate the energy levels of the particles (High, Medium or Low).



1) List the freezing, melting and boiling points of water in degrees Celsius.

2) What are the two ways the atoms of a **solid** can be arranged? _____

3) Draw a crystal shape for a metal.



Liquids: _____

4) What are the characteristics of liquids? _____

5) What is surface tension? _____

How can you show it? _____

6) What is viscosity? _____

7) Give an example of a viscous liquid? _____

Gases: _____

8) What are the properties of a gas?

9) What is pressure?

10) Why can gasses apply pressure?

11) a) Why does matter change state? b)What has to be added to go from a solid to a liquid, or a liquid to a gas? c)What has to be taken out/away to go the opposite direction?

12) What is vaporization? - _____

13) What is condensation? _____

14) What are two ways that liquids will vaporize? _____

14b) What is sublimation? _____

<p>15) List the the indicators of a physical Reaction</p>	<p>List the indicators of a chemical Reaction</p>
<p>1. Usually Reversible</p> <p>2. No new substance is made</p> <p>3. Changes, shape, size, form or state only</p> <p>Mixtures are an example. A mixture alone is a physical reaction. There are two types of mixtures, hetero_____ and homogeneous. The h_____ mixture is the same throughout and the _____ mixture is different throughout.</p> <p>A solution is a h_____geneous mixture that has a solute and a _____ that combine to make a _____.</p>	<p>1. New substance is made</p> <p>2. New color (not just a blend of existing colors), odor, gas is given off .</p> <p>3. Reaction gives off energy in form of heat, light, flames, (Exothermic)</p> <p>4. Reaction absorbs heat or energy (Endothermic)</p> <p>5. Very difficult to reverse</p>
<p>16) What is matter? _____</p> <p>17) What is the Law of conservation of matter? Matter is _____ or _____</p> <p>18) How could you demonstrate this law? _____ _____ _____</p>	