

ASYNCHRONOUS CLASS ASSIGNMENT - CHEMISTRY

Name: _____

Class: _____

No	Questions																																			
1	Separate: Chemistry and Extended Only The following table gives information about six substances. <table><tr><th>Substance</th><th>melting point / °C</th><th>boiling point / °C</th><th>electrical conductivity as a solid</th><th>electrical conductivity as a liquid</th></tr><tr><td>A</td><td>839</td><td>1484</td><td>good</td><td>good</td></tr><tr><td>B</td><td>-210</td><td>-196</td><td>poor</td><td>poor</td></tr><tr><td>C</td><td>776</td><td>1497</td><td>poor</td><td>good</td></tr><tr><td>D</td><td>-117</td><td>78</td><td>poor</td><td>poor</td></tr><tr><td>E</td><td>1607</td><td>2227</td><td>poor</td><td>poor</td></tr><tr><td>F</td><td>-5</td><td>102</td><td>poor</td><td>good</td></tr></table>	Substance	melting point / °C	boiling point / °C	electrical conductivity as a solid	electrical conductivity as a liquid	A	839	1484	good	good	B	-210	-196	poor	poor	C	776	1497	poor	good	D	-117	78	poor	poor	E	1607	2227	poor	poor	F	-5	102	poor	good
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	a Which substances are solids at room temperature? Answer:																																			
	b Which substance could be a metal? Answer:																																			
	c Which substance is an ionic compound? Answer:																																			
	d Which substances are liquids at room temperature? Answer:																																			
2	Complete Table 1.1 about solids, liquids and gases. Table 1.1 <table><tr><th></th><th>particle separation</th><th>particle arrangement</th><th>type of motion</th></tr><tr><td>solid</td><td></td><td>regular</td><td>vibrate only</td></tr><tr><td>liquid</td><td>some touching</td><td></td><td>random</td></tr><tr><td>gas</td><td>apart</td><td>random</td><td></td></tr></table>		particle separation	particle arrangement	type of motion	solid		regular	vibrate only	liquid	some touching		random	gas	apart	random																				
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3	a The diagram shows a heating curve for a sample of compound X. Is X a solid, a liquid or a gas at room temperature, 20 °C? Answer:
	b Name the change of state which occurs in region DE. Answer:
4	Explain the following in terms of the kinetic particle theory. A liquid has a fixed volume but takes up the shape of the container. A gas takes up the shape of the container but it does not have a fixed volume. Answer: