This task is about changing states of matter: solid, liquid and gas.

A heating curve is a graph that represents the stages of matter that a substance changes into as heat is added to it. The flat lines on the curve mark where the stages of matter change. The temperature is constant at these transition points.

		Heating Curve of Octane
Th of cc	his is the heating curve f octane (the main omponent in petrol).	$ \begin{array}{c} 140\\ 120\\ 100\\ 80\\ 40\\ 20\\ 0\\ -20\\ -40\\ -60\\ -100\\ \end{array} $ Time
a)) i) What is the temperature of the octane at the start of the investigation?°Cii) Is the state of the octane a <i>solid liquid</i> or <i>qas</i> at the start of the investigation?	
	if is the state of the octaile a solid,	inquid, or gas at the start of the investigation:
b)		a bagin malting?
of At what temperature does the octane begin menning? C		
c) At what temperature does the octane begin boiling?°C		
d)	d) What two states would you observe at point A?	
	1 2	
e)	What state would you observe at poi	int B?
f)	What two states would you observe at point C?	
	1 2	
g)) Describe what is happening to the pa	articles when the octane becomes liquid. The particles:
h)) Describe what is happening to the pa	articles when the octane is rapidly boiling. The particles:

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