•	The Periodic Table as arranged by Mendeleev allows us to make predictions about the
	behaviours of elements based on those around them. Briefly describe why the
	Periodic Table works.

Marks 5

Silicon and tin have the same structure as diamond. Use the information in the following table to predict the density of tin.

Element	Atomic Mass	Density (g cm ⁻³)	Bond length (pm)
Si	28	2.329	233
Sn	118		280

Answer: