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The diagram shows an atom of carbon.

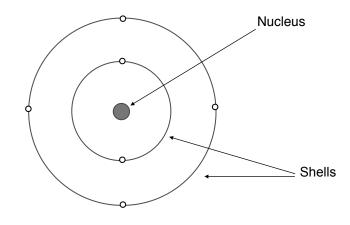


 Table 1 shows the sub atomic particles that are present in an atom of carbon.

Table 1		
Particle	Location	Charge
Electron	Shells/orbitals/energy levels [1]	-1 [1]
Neutron	Nucleus	Neutral or no charge or 0 [1]
Proton	Nucleus [1]	+1

Complete the table.

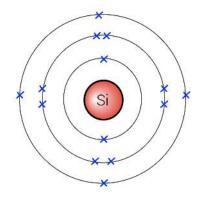
[4 marks]

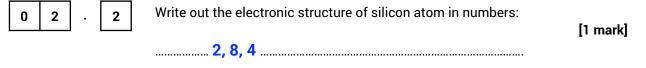


A silicon atom has 14 electrons.

Draw the electronic structure of a silicon atom on the template below: Complete the diagram below. [1 mark]

TOP TIP : Where the electrons are on the shell doesn't matter. You don't have to use crosses for this question but generally you should use either a cross (x) or a dot (o).





(Total 6 marks)