

Sub-atomic particles and structure of an atom

1) Complete the following table:

Please note that I have left the mass in grams out of the table below as the relative mass is used instead.

Sub-atomic particle	Relative charge	Relative mass	Location
Proton			
Neutron			
Electron			

2) Explain why the nucleus is the most dense part of atom.

3) What do you notice about the energy levels of the atom going from $n=1$ to $n=5$?