Task 1 Atomic Structure - Worksheet 1:

Complete the following sentences and definitions to give a summary of this topic.

Structure of an atom
The nucleus contains
The electrons are found in the
To work out the number of each sub-atomic particle in an atom we use the Periodic Table (PT). The number of protons is given by
In a neutral atom the number of electrons is
To work out the number of neutrons we
Vocabulary State what is meant by the following torms
State what is meant by the following terms. 1 Relative atomic mass
2 Relative molecular mass
3 Isotope
4 Relative isotopic mass
Structure of an ion

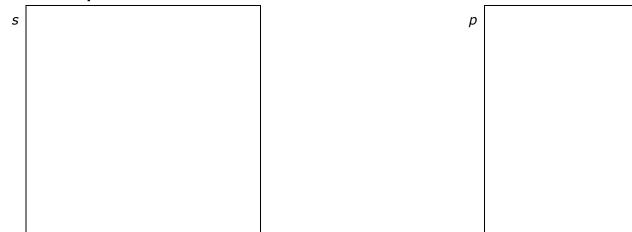
When an atom becomes an ion, only the number of change	jes.
For positive ions this by the number equivalent the charge on the ion.	nt to
For negative ions this by the number equival the charge on the ion.	lent to

Task 1 Atomic Structure - Worksheet 2: Orbitals and electron configuration

Fill in the following table.

Quantum shell	Maximum number of electrons	Types of orbitals	Total number of orbitals	Electron configuration
n = 1				
n = 2				
n = 3				
n = 4				

Sketch the shapes of the s and p orbitals.



Complete the following table to show the electron configuration of the elements in the first column.

		Electron	configuration	Electrons in boxes														
	z	2.8.8	s, p, d	s	s		р		s	р			d					s
Na																		
Ве																		
Be ²⁺																		
P																		
Cr																		
Cu																		
Fe																		
AI																		
Al³+																		
Sc																		
CI																		
CI-																	_	