Y12 – Atomic Structure

Stick this checklist into your yellow book at the beginning of the topic. Tick off the topics as you cover them.			
In this module you are expected to be able to	In Notes	Revised	
Define the terms			
Atomic Orbital			
• Sub-shell			
First ionisation energy			
Calculate p^+ n^0 e^- numbers for atoms and ions			
Use mass spectrometry data to calculate relative atomic mass			
Draw, and name, the shape of s and p orbitals.			
Recall the number of orbitals making up s, p and d sub-shells			
Draw orbital filling diagrams for elements up to and including Kr			
Write electron configurations for elements up to and including Kr			
Draw orbital filling diagrams and write electron configurations for s and p block elements up to Kr			
Identify the s p d and f blocks of the periodic table			
Write equations for ionisation energies			
Explain the trends in ionisation energy			
Down a group			
Across a period			
Sketch the ionisation energies of period 2 and 3 as a graph, and explain the jumps in energy between			
groups 2 and 3, and between groups 5 and 6.			
Use successive ionisation energies to identify the group an atom is found in.			

Pre-test Evaluation

I have	
Updated my yellow book notes	
Ensured I understand all of my notes	
Looked on the open drive for additional work	
Asked my teacher for guidance	
Confidence rating	I'm doomed! = + ++ I am the BOSS!