Task – produce a PowerPoint (or any info sheet or poster) covering the following topics

Topic – Atomic Structure Syllabus Ref: 3.2.1.1

Content:

Inside the Atom Proton number Nucleon Number

Specific Charge Isotopes

Learning Objective	Make some simple notes for your PowerPoint
Understand that an	
atom is made up of	
protons, neutrons and	
electrons	
Know the mass and	
charge of protons,	
neutrons and electrons	
in relative units.	
Know that the proton	
number, Z, is the	
number of protons	
Know that the nucleon	
number, A, is the total	
number of protons and	
neutrons.	
neutrons.	
Be able to use nuclide	
notation.	
Know what specific	
charge means and how	
to calculate the specific	
charge of nuclei and	
ions	
Know that isotopes	
have the same proton	
number but different	
nucleon numbers	

https://www.physicstutoronline.co.uk/alevelphysicsnotes/structure-of-the-atom-notes/

Task – produce a PowerPoint (or any info sheet or poster) covering the following topics

Topic – Stable and Unstable Nuclei Syllabus Ref: 3.2.1.2

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Forces in the nucleus Strong Nuclear Force Nuclear Decay

Learning Objective	Make some simple notes for your PowerPoint
Understand the role of	
the strong nuclear force	
in keeping the nucleus	
stable.	
Know how the strong	
nuclear force varies with nucleons	
separation.	
separation.	
Understand that	
unstable nuclei can	
undergo alpha or beta	
decay	
Vnow the equations for	
Know the equations for alpha and beta-minus	
decay, including the	
need for the neutrino.	