

ATOMIC STRUCTURE (A)

1	This	question is about the structure of atoms.
	а	Name the three particles that are found inside atoms.
	b	Which of these particles are found inside the nucleus of the atom.
	С	Which of these particles is neutral?
	d	Which of these particles has a negative electric charge?
	е	Which of these particles has a positive electric charge?
2	This	s question is about $^{27}_{13}Al$ atoms.
	а	How many protons, neutrons and electrons are in this atom?
		protons = neutrons = electrons =
	b	What is it that makes this an atom of aluminium?
3	num	ger and Marsden carried out an experiment where they fired alpha particles at a thin piece of gold. A small aber of alpha particles were deflected or bounced back. This experiment led to Rutherford developing a model of the atom. Why do most of the alpha particles pass straight through the gold atoms?
	b	Why do some of the alpha particles deflect or bounce back?
	С	Give two key differences between Rutherford's model of the atom and the Thomson's plum pudding model that it replaced. 1
		2
4	а	Define the term atomic number.
	b	Define the term mass number.

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