0 1 . 1	/hat can you conclude from the fact that scientists continue to update the tomic model?		
		[1 mark]	
	☐ New information about atoms continues to be discover	ed	
	☐ Old information about atoms is completely useless		
	☐ Scientists did not have any information about atoms un	ntil a few years ago	
	\square Scientists still have no idea what atoms look like		
0 2	Here is a diagram representing an atom:		
	A B E		
0 2 . 1	Circle the letter which represents the area where the majority of exists?	of an atom's mass [1 mark]	
0 2 . 2	What is the name of this part of the atom? the nucleus [1]	[1 mark]	
0 3 . 1	Several different scientists made key discoveries about the str Describe the key features of Thompson's plum pudding model		
	ball/sphere of positive charge [1]		
	with electrons embedded/dotted around in it [1]		
0 3 . 2	In 1922, Bohr changed the theory about how electrons are arra atom. How did his ideas differ from our previous understanding		
	(electrons) are arranged in shells/energy levels [1]		

0 3 . 3	Chadwick discovered the neutron in 1932.	
	How are neutrons different from protons and electrons?	[1 mark]
	They have no electrical charge [1]	
0 4	In 1911, Rutherford and Marsden conducted an experiment involving bon a thin layer of gold foil with alpha particles. This was called the scattering experiment.	
0 4 . 1	In the scattering experiment, most of the particles fired at the foil:	[1 mark]
	□ bounced back	[i iliaik]
0 4 . 2	□ were absorbed	
	□ combined with the foil	
	From these results, Rutherford discovered that atoms were mostly:	[1 mark]
	□ Negatively charged	
	□ Positively charged	
	□ Electrons	
	☑ Empty space	
	(Total End	9 marks)