(a)	Sta	te the result that provided evidence for
	(i)	the small size of the nucleus, compared with the atom,
		[2]
	(ii)	the nucleus being charged and containing the majority of the mass of the atom.
		[2]
(b)	Sug	α -particles in this experiment originated from the decay of a radioactive nuclide. gest two reasons why β -particles from a radioactive source would be inappropriate his type of scattering experiment.
	1	
	2	
		[2]
	••••	[2]
	••••	[2]
		[2]
		[2]
		[2]
		[2]