Question number	Answer	Accept	Reject	Marks
8	An explanation including any five of these ideas (in any order): MP1 alpha particles have less penetrating power /less range; MP2 alphas have more charge; MP3 alphas cause more ionization; MP4 alphas are bigger / have more mass; MP5 (slowing) force on alpha particles is larger; MP6 (kinetic) energy of alpha lost quickly causing ionization; MP7 (larger) alpha particles are more likely to collide with atoms;	Accept reverse arguments, e.g. beta particles have more penetrating power etc Ignore comparisons of energy/ velocity/ momentum		5

Total 5 marks