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•	¹¹ C is used in positron emission tomography – PET. It is synthesised by bombarding a ¹⁴ N target with protons. Write a nuclear equation for the formation of ¹¹ C and thus identify the by-product of this synthesis.	Marks 2
	¹¹ C undergoes positron decay with a half life of 20.3 minutes. Write a nuclear equation to identify the product of this decay reaction.	