9	A teacher measures the count from a radioactive source over a 20 minute period.(a) Name an instrument the teacher should use to detect the radiation emitted from the source.	(1)
1	(b) (i) State two sources of background radiation.	(2)
2		
	(ii) Describe the procedure the teacher should follow to measure the background radiation and correct the count measurement.	(3)





	(c)	The radioactive source used by the teacher emits beta radiation.	
		Describe how the nucleus of an atom is changed by the emission of a beta particle.	
			(2)
	(d)	State two ways that the teacher can reduce the risks when working with radioactive	sources.
1			
2			
	(Total for Question 9 = 10 marks)		(s)