Prior Learning		Atomic structure – atoms contain protons, neutrons and electrons. Isotopes Conservation of mass in a reaction. Chemical equations and what happens in a chemical reaction.		
Lesson Number	**AQA Spec**	**Title**	**Content**	**Assessment**
1	4.4.2.1 4.4.3.1	Background radiation	• Recall sources of background radiation. • Describe how different types of radiation have different ionising power.	
2	4.4.2.1	Radioactive decay	• Describe radioactive decay. • Describe the types of nuclear radiation. • Understand the processes of alpha decay and beta decay.	
3	4.4.2.2	Nuclear equations	• Understand nuclear equations. • Write balanced nuclear equations.	**Assessment 1:** Multiple choice Quiz 25 Marks Feedback: Auto/Self-assessed
4	4.4.2.4	Irradiation	• Explain what is meant by irradiation. • Understand the distinction between contamination and irradiation. • Appreciate the importance of communication between scientists.	

5	4.4.2.3 4.4.2.1 4.4.3.2	Radioactive half-life	• Explain what is meant by radioactive half-life. • Calculate half-life. • Choose the best radioisotope for a task.	**Assessment 2:** Written assessment 15 Marks Feedback: Teacher
6	4.4.2.4	Hazards and uses of radiation	• Trilogy students do not need to know the content in the last section: Using medical tracers. • Describe radioactive contamination. • Give examples of how radioactive tracers can be used.	
End of Unit test Assessment: Teacher				
Where we will use these ideas again		P6 – Gamma radiation		