

## P7 Radioactivity revision questions

1	Which type of radiation is a wave and not a particle ?	
2	Which is the most ionising radiation ?	
3	Which radiation can be blocked by the skin ?	
4	Why do radioactive nuclei decay ?	
5	Two reasons radioactive materials are harmful	
6	If a radioactive source starts with a count rate of 400 counts. What will it be after 3 half lives ?	
7	How is Carbon 14 different to Carbon 12 ?	
8	Write a nuclear equation to show the beta decay of Carbon 14	
9	What happened to most of the alpha particles in the scattering experiment ?	
10	How is the nuclear model different to the plum pudding model ?	
11	Why is contamination usually more dangerous than irradiation ?	
12	Why might a doctor deliberately expose a patient to radioactivity ?	
13	What kind of radioactive source would a doctor inject into a patient to take an image of inside of their body. Explain.	
14	Give two sources of background radiation	
15	Is background radiation safe ?	
16	Which is harder to start off Nuclear fission or nuclear fusion ? Explain.	
17	Which F can lead to a chain reaction ?	
18	In a nuclear reactor, how can a chain reaction be controlled ?	
19	What stops nuclei fusing normally ?	
20	Why is fusion possible in the sun ?	

Label and complete these :

