Draw an atom and label each part. Draw		Draw a tin	neline to represent the discovery of the at	Describe JJ Thomson's theory of the atom (plumb pudding).
Particle	Relative Charge	Relative Mass	5	
Proton				State the observations Rutherford saw in his
Neutron				Gold leaf experiment.
Electron				
			Atomic Structure	
	tons, electrons and ne	eutrons?	Describe Rutherford's Gold leaf experimen	t. Explain Rutherford's conclusions about the atom based on the observations.
³⁷ ₁₇ Cl				
••••••				
•••••				

Radiation	Symbol	What	Penetrating	Ionising	Deflected		
Туре		is it?	Power	Power	by a		
					Magnetic		
					Field?		
					(Y/N)		
Describe the uses of each type of radiation and explain							
why each one is suitable.							
willy cutil one is suitable.							
Alpha:							

			1			
Describe the uses of each type of radiation and explain why each one is suitable.						
Alpha:						
Beta:						
Gamma:		••••••				

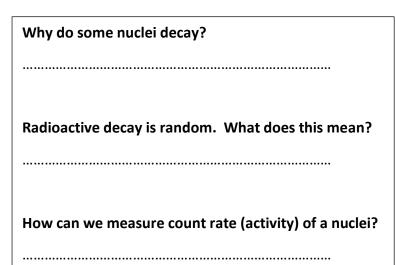
Complete	alpha	and	beta	decay	equations
	P			,	-4

Alpha α : ²¹⁹ 86 Rn \rightarrow

Beta β : ¹⁴ $_6$ C \rightarrow

Why does the emission of gamma rays not cha mass or charge of the nucleus?

alige the	



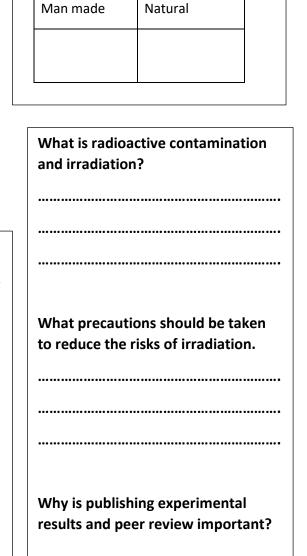
What is ha	ılf life?				
Determine	the half	life of a	n isoton	e from its	decay
curve.	the nan	ille of a	пізосор	e nom its	uecay
50 £	$ar{}$			7	
ope ado	\mathbb{H}				
Number of isotope atoms	\mathbb{H}				
o 20				1	✓
5 10 ⋅				Wha	at

lifes?

proportion of a

nuclei is left

after 4 half



State some sources of background

radiation