Name			Period
Freshmen Transition			
Assignment 3S – Nuclear Decay		olana motos	20 Points
Answer the following questions l	oasea on the th c	ass notes	
Define the role of the following subatomic particles			
Protons $(p^+)$	Electron (e <sup>-</sup> )		Neutron $(n^o)$
		1	
Define <i>Z-Ratio</i>			Ratio determine the stability of
		an isotope of an element?	
What is the optimal Z-Ratio for the following size atoms?			
Small Atoms	Medium Atoms		Large Atoms
Calculate the Z-Ratio for the following isotopes of Carbon			
Carbon-12	Carbon-13		Carbon-14
vvn	. 0 11	****	/ n\ 1
What are the main components of all subatomic particles $(e^-, p^+, and n^o)$		When neutrons $(n^o)$ break apart what does it produce?	
subatoffic particles (e, p, unu n)			produce:
Complete the follow	wing chart based	on the main nuc	clear decay particles
Alpha Particle	Beta + Particle		Beta - Particle
Triplia Tarrioto			
Overall Structure of the Particle			
How the nuclear decay particle makes the atom more stable			