Cheatography

10th grade radiation Cheat Sheet by Adrianna via cheatography.com/184709/cs/38571/

Electromagnetic radiation				
Electr- oma- gnetic radiation	waves created by vibration of electric charge wave = electric a/ magnetic components			
	ex. radio, microwaves, light			
	ionizing radiation can cause atoms to lose e- a/ become ions - leads to cancer			
Isotopes				
Isotope	An element with the same # protons but different # neutrons			
	# protons/ atomic number stays the same, # neutrons atomic mass can change			
Unstable or stable	If the protons and neutrons are mostly balanced then its most likely stable			
	can only be off by 1			
3 types of radiation				
Alpha	Big, slow, larger than beta/ gamma			
	take away 4 from the atomic mass			
	take away 2 from the atomic number			
	226 Ra 88 = 222 Rn 86 + 4 x 2 (or 4 He 2)			
Beta	fast, small, can penetrate, not far			

Betafast, small, can penetrate, not farleave atomic mass alone but +1for the atomic number131 | 53 = 131 Xe 54 + 0 B -1

Gamma not a particle, high energy rays (short wavelengths) travels at speed light

leave everything the same

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3 types of radiation				
Name	Alpha	Beta	Gamma	
Greek letter	х	В	У	
Symbol	4 x 2	0 e -1	0 y 0	
Compos ition	4 neutrons 2protons	1 electron	energy	
Charge	+2	-1	0	
Stopped by	paper, skin, clothing	Aluminum foil	something thick	

For the symbols its meant to look like atomic notion first number on the top second number on the bottom.

3 types of radiation stopped by

