## Chapter 18: Radioactivity & Nuclear Reactions

- Radioactivity
- Types of Radiation
- Nuclear Reactions
- Half Life



## Radioactivity

• The word \_\_\_\_\_ was first used in the 1890s by



 She used the word radioactivity to describe the property of certain substances to give off invisible

\_\_\_\_ " that could

be detected by films.



## Radioactivity

- Unstable atoms will continue to undergo radioactive decay until they form \_\_\_\_\_\_atoms.
- (Change into atoms of another element.)









Types of Radiation	
11	-
• In	<b>decay</b> , the nucleus ejects
two protons and two neutrons.	
•	_decay occurs when a
neutron in the nuc	cleus splits into a proton and an
electron.	
•	docay is not truly a decay
	uecay is not truly a decay
reaction in the sense that the nucleus becomes	

something different.





























