P1 - Atomic Structure June 6,2014	
Atoms (perocritus)	- Charles
- can exist alone or enter into chemical combination	er. 1979
- the smallest indivisible particle of an element	
motecules	
- a combination of atoms that has its own characteristic set of properties	1. 1.
Datton's Atomic Theory	ea goodate
- Postulate 1	
. An element is composed of tiny particles called atoms (can be divided to subatomic particles))
• All atoms of a given element show the same chemical properties (wrong; there is isoto	opes)
- posulate 2	Stores.
· atoms of different elements have different properties (isobar)	a kan sadi di di
- Postulate 3	ic
· compounds are formed when atoms of two or more elements combine	9.9.
. In a given compaund, the relative number of atoms of each kind are definite and constar	1†
- Postulate 4	
. In an ordinary chemical reaction, no atom of any element discappears or is charged into	o an atom of
another element	
· chemical reactions involve changing the way in which the atoms are joined togethe	
Radio octivity	
Radioactive cale.	
() Substance + Oproc types of rays emitted by Rad	loactive Element
	a di sasara
A reconce	
preview page	
Aliha - hellum - 4 nucleus	
Beta - high energy electron	
Gamma - energy resulting from transitions from nuclear theray to another level	- Art - Lange
Alpha Radiation	New York Tara and
-composed of 2 protons and 2 neutrons	
- thus helium - 4 nucleus	<u> . Con 19 19 19 19 19 19 19 19 19 19 19 19 19 </u>
- +2 charge	
- mass of 4 amu 222 a 4 11 (a)	
- creates element with atomic number 2 lower ex. 294 Ra $\rightarrow ^{222}$ Rn + 4 He (x)	<u></u>
Beta Radiation	and the second s
- composed of a high energy electron which was ejected from the nucleus	
- "neutron" converted to "proton"	
- very little mass -creates element with atomic number 1 higher ex. 239 U-	7 239 Np+ "p
1 charge	2555 C. 184

Cattleya

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