

Atomic and Nuclear Review Chs 23, 25

Be able to Define, Explain, and Give Examples of the Following:

Be able to write and balance nuclear reactions.

Atomic Theories of	The Proton	Positron
... Democritus	The Neutron	Gamma ray
... John Dalton	X-rays	Neutrino
Law of Conservation of Mass	Radioactivity	Fission bomb
Law of Definite Proportions	Rays of Radioactivity	Fusion bomb
Law of Multiple Proportions	Size of Atom	Critical Mass
Law of Gay Lussac	Size on Nucleus	Nuclear Reactor
Faraday's Discovery	Spectroscopy of Electrons	Mass Defect
Crookes tube	Balance Nuclear Reactions	$E = mc^2$
Paddle wheel tube	Transmutation of elements	The Four Forces
Tube of Sir JJ Thompson	Nuclear Fission	Linear Accelerators
Oil drop experiment	Nuclear Fusion	Circular Accelerators
Mass of the electron	Atomic Number	Nuclear Power Plant
Canal ray tube	Nuclear Charge	Radioactive Decay Chain
Ions	Mass Number	Radioactive Dating
Isotopes	Atomic Weight	Van de Graaf Accelerator
Mass spectrograph	Alpha particle	Three results of Relativity
The Electron	Beta particle	