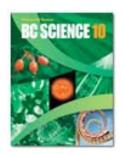
Section 7.1 Atomic Theory, Isotopes, and Radioactive Decay

Before You Read



1. Words to Know

Directions: Match the correct definition to the term on the left. Scan pages 286 – 299 to find the definitions.

Words to Know	Definition
alpha particle	A. different atoms of a particular element that have the same number of protons but different numbers of neutrons
beta particle	B. the only visible part of the electromagnetic spectrum
gamma radiation	C. high-energy rays and particles emitted by radioactive sources
isotopes	D. the process in which unstable nuclei lose energy by emitting radiation
light	E. rays of high-energy, short-wavelength radiation (γ)
mass number	F. positively charged atomic particles (α) that are much more massive than either beta particles or gamma radiation
radiation	 G. an electron, (β); lightweight and fast- moving, they have a greater penetrating power than alpha particles
radioactive decay	H. a whole number that represents the sum of an isotope's protons and neutrons

Directio	ons: Scan pages 286 – 299 looking at the pictures and titles within
section	. Predict six things you think you will learn in this section.
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