Meeting Individual Needs

Note-taking Worksheet (continued)

C	
1.	unconformity—rock layers are tilted, and younger sediment layers are deposited horizontally on top of the eroded and tilted layers.
2.	A layer of horizontal rock once exposed and eroded before younger rocks formed over it is
	called a
3.	—sedimentary rock forms over eroded metamorphic or igneous rock.
D. Th	ne same rock layers can be found in different locations; fossils can be used to
	those rock layers.
	on 3 Absolute Ages of Rocks
A	—age, in years, of a rock or other object; determined by properties
	atoms
B. U	nstable isotopes break down into other isotopes and particles in the process of
-	decay.
1.	—an isotope's neutron breaks down into a proton and an electron with the electron leaving the atom as a beta particle; a new element forms due to proton gain.
2.	—an isotope gives off two protons and two neutrons as an alpha particle; a new element forms.
3.	The time it takes for half the atoms in an isotope to decay is the
	isotope's
C. C	alculating the absolute age of a rock using the ratio of parent isotope to daughter product
ar	nd the half-life of the parent is called radiometric
.1.	dating is used to date ancient rocks millions of years old.
2.	
3.	old. Earth is estimated to be about 4.5 billion years old; the oldest known rocks are about years old.
D.	—Earth processes occurring today are similar to those that
	ccurred in the past.