Note-taking Worksheet (continued)

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C. Lanconton Market gaps in rock layers
1 unconformity—rock layers are tilted, and younger sediment layers are deposited horizontally on top of the eroded and tilted layers.
 A layer of horizontal rock once exposed and eroded before younger rocks formed over it is called a
D. The same rock layers can be found in different locations fossils can be used to Correlate I those rock layers. Confirm Same Rock Type
A. Absolute Ages of Rocks A. Absolute Ages of Rocks age, in years, of a rock or other object; determined by properties of atoms
B. Unstable isotopes break down into other isotopes and particles in the process of decay.
with the electron leaving the atom as a beta particle; a new element forms due to proton gain. —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. Calculating the absolute age of a rock using the ratio of parent isotope to daughter product and the half-life of the parent is called radiometric.
dating is used to date ancient rocks millions of years old. dating is used to date bones, wood, and charcoal up to 75,000 years old.
Earth is estimated to be about 4.5 billion years old; the oldest known rocks are about years old. D. Marian S. A. Earth processes occurring today are similar to those that
occurred in the past.

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Note-taking Clues to Earth's Past

Okange Book Ch. 13

	Section	1	, Fo	ossils
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A. Pleonologists study fossils and reconstruct the appearance of animals.

B. Fossis — remains, imprints, or traces of prehistoric organisms > Animals, Dishes

1. Fossils can form if the organism is quickly—Butted—by sediments.

2. Organisms with are more likely to become fossils than organisms with soft parts.

Types of Presentation (Actual Remains-tossilized)

1. Fossils in which spaces inside are filled with minerals from groundwater are called remains.

results when a thin film or carbon residue forms a silhouette of the original organism; carbonized plant material becomes

4. If sediments wash into a mold, they can form a Cast. of the original organism.

5. Occasionally <u>Original</u> remains are <u>preserved</u> in a material such as amber, ice, or tar.

Trace Possis — evidence of an organism's activities

a. Can be Feet Divis TRacks left in mud or sand that became stone

b. Can be trails or _____ made by worms and other animals

D. ____abundant, geographically widespread organisms that existed for relatively short periods of time

E. Fossils can reveal information about past land forms and Chmate + Weather

Section 2 Relative Ages of Rocks & Rock layers under Ground.

A. Principle of Super position—process of reading undisturbed rock layers

1. Uldest rocks in the bottom layer

2. Youngest rocks in the top layers

B. How old something is in comparison with something else is its Keat New Years.

1. The age of Lind Sturbed rocks can be determined by examining layer sequences.

2. The age of disturbed rocks may have to be determined by **DSS1S** or other clues.