#___

Earth Scientist: _____

Date: _____-_____-_____ HR: _____

Geologic Time – Two Column Notes

Directions: Use pages 229 – 232 in the Earth Science textbook to fill in the two-column notes, below.

Big Idea	Details from the text
The geologic column	The _____ _____ is an _____ _____ of _____ _____ that is based on the _____ ages of the _____ and in which the _____ rocks are at the _____.
How do Scientists use a geologic column	To _____the _____ of _____ _____ that cannot be _____ _____. To determine the _____ of a rock layer, scientists _____ that _____ with _____ _____ that contain the _____ _____ or that has the _____ _____ _____
Divisions of Geologic Time	are marked by _____ _____ in Earth's_____, _____, and types of _____. Divisions are usually characterized by a _____ _____- _____
Eons	Eons are the _____ unit of_____ _____. There are ___ eons: Hadean Eon (4,600 Ma - 3,800 Ma) Archean Eon (3,800 Ma - 2,500 Ma) Proterozic Eon (2,500 Ma - 542 Ma) Phanerozoic Eon (542 Ma - now)
Eras	Eons are _____ into _____ units of _____. The Phanerozoic Eon is divided into ___ eras: Paleozoic Era Mesozoic Era Cenozoic Era
Periods	_____ are divided into _____. Periods are usually named for the _____ in which the _____ were first _____.
Epochs	Where the rock record is most complete and least deformed, a detailed fossil record may allow scientists to _____ a period into shorter time units called _____.

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Questions: Use what you learned to answer the following questions using complete thoughts and complete sentences for questions 1-2. Question #3 is fill-in-the-blank.

1. Compare the terms geologic time and geologic column.

2. How would our understanding of Earth's past change if a scientist discovered a mammal fossil from the Paleozoic Era?

3. Use the following terms to create a concept map: *geologic time, Precambrian time, Paleozoic Era, Mesozoic Era, Cenozoic Era, periods & epochs.* Fill in a-H!