**Ch. 29 – Fossils**

* What is a **fossil**?
* What are scientists that study fossils?
* How are fossils formed?
* What are the different types of fossils?
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* What **type** of rock are nearly all fossils found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What is **relative dating**? What does relative dating not tell us?
* What are some of the different principles of relative dating?
	+ *Horizontality -*
	+ *Superposition -*
	+ *Cross-cutting Relationships -*
	+ *Included Fragments -*
* What is **absolute** **dating**?
* How do we use radiometric/radioactive decay to determine the age of fossils?
* **Half-life** is the time required for half a given sample of a radioactive isotope to decay.

**Ch. 30 – Geologic Time Scale**

* What is the geologic time scale?
* What are the four major divisions of the time scale from largest to smallest?
	1. **Eon -**
	2. **Era -**
	3. **Period -**
	4. **Epochs -**
* What are the 4 major Eras? What are defining characteristics of each?
	1. Cenozoic -
	2. Mesozoic -
	3. Paleozoic -
	4. Precambrian -
* Which era above lasted the longest?
* What gases made up the early atmosphere of the earth? What gases make up the modern atmosphere?
* How old is the Earth?