Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period \_\_\_\_

**REVIEW OUTLINE  
Chapter 21 Fossils & Geologic Time**

**Objectives:**

* The Geologic Time Scale

1. I understand how Earth’s history is divided into sections of time called the geologic time scale. This means I can:
   1. Explain how major changes mark the boundaries between the sections.
   2. Discuss the general changes in organisms from the appearance of life on Earth to present day.

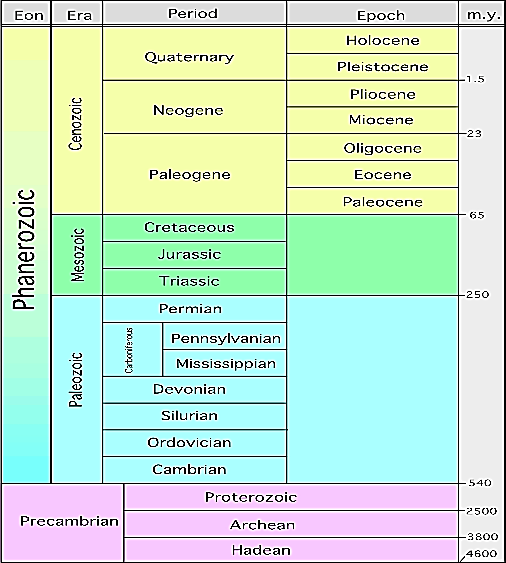
* Fossils

1. I can describe the characteristics Index Fossils and explain how Index Fossils are used.
2. Discuss how fossils can be used to interpret Earth’s past physical and environmental history.

* Dating of Rocks

1. I can apply the principles for determining relative age to interpret rock sequences. This means I can:
   1. Determine the oldest and youngest layers using the Law of Superposition.
   2. Determine the relative age of layers and intrusions.
   3. Match rock layers in different areas using Correlation.
2. I can apply the principles for determining absolute age using radioactive decay rates and half-lifes.

**Geologic Time**

* **How is Time Divided?**

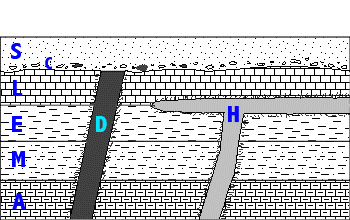
**Remains of Organisms in Rock Record**

* **Index Fossils**
* **Trace Fossils**

**Two Types of Dating**

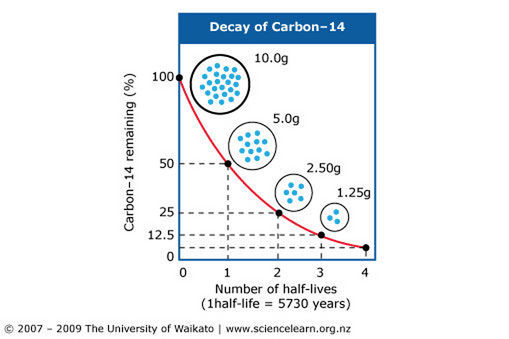
3. ***RELATIVE* - Age Dating of Rocks**

* **Ways to Determine Relative Age**



1. ***ABSOLUTE* - Age Dating of Rocks**



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* **We use Absolute dating to determine**
  + **Half-Life**