**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_Date\_\_\_\_\_\_\_**

**Unit 15 Guided Notes**

**Earth’s History**

**Text Reference: Ch 13 363-385**

**Geology Time Scale**

* Based on interpretations of the rock record, geologists have dived the Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ history into units that represent specific amounts of time. Take together, these time spans make up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_ represent the \_\_\_\_\_\_\_\_\_\_\_\_ expanses of time. Eons are divided in \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Each era is subdivided into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Finally, periods are divided into smaller units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-derived from Greek meaning \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* There are \_\_\_\_ eras within the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ eon; the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ which means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ which means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ life
* Each period within an era is characterized by somewhat \_\_\_\_\_\_\_\_ profound chage in life as compared with the changes that occur during an era
* The periods of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ era are divided into epochs.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_million years ago
	+ Represents \_\_\_\_\_\_\_\_\_ of earth’s time history
	+ During Precambrian time, there were fewer life forms. These life forms are more difficult to identify and the rocks have been disturbed often.
	+ \_\_\_\_\_\_ eons within this time: starting from most recent: \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Precambrian Time: Vast and Puzzling**

* Encompasses the \_\_\_\_\_\_\_\_ geologic time from about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years ago until the start of the \_\_\_\_\_\_\_\_\_\_\_ period**, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**years later
* All time between \_\_\_\_\_\_\_\_\_\_\_\_of earth and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Most Precambrian rocks \_\_\_\_\_\_\_\_\_\_\_\_\_ contain \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Much of what we know about Precambrian rocks comes from \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_from shields
	+ Shields=\_\_\_\_\_\_\_\_\_\_\_\_\_ relatively, \_\_\_\_\_\_\_\_ expanses of ancient \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_rock within the stable continental interior
	+ Ex. Iron, nickel, gold, silver, copper, chromium, uranium, and diamond mines have provided samples
* Oldest Rocks/Fossils=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Earth’s original atmosphere wad made up of gases similar to those released in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ eruptions today-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_and several trace gases but \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Later, primary plants evolved that used \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and released \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* At first, most oxygen combined with \_\_\_\_\_\_\_\_\_\_\_\_ to make \_\_\_\_\_\_\_
* Oxygen began to accumulate about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The most common Precambrian Fossils are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Stromalites are distinctively \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or columns of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. They are NOT the remains of actual organisms but the material deposited by \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Paleozoic Era: Life Explodes**

* Following the long Precambrian time, the most recent 540 million years of Earth’s History are divided into three eras:
	+ Paleozoic
	+ Mesozoic
	+ Cenozoic
* The \_\_\_\_\_\_\_\_\_\_\_\_\_ era encompasses about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Before the Paleozoic, life forms possessed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Paleozoic contains many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ due the emergence of life forms with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Paleozoic is divided into \_\_\_\_\_\_\_\_\_\_\_ Paleozoic & \_\_\_\_\_\_\_\_ Paleozoic
	+ Early Paleozoic Periods
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Late Paleozoic Periods
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Early Paleozoic History
	+ Consists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_time span that includes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ periods
	+ During this time, the vast southern continent of Godwanda encompassed \_\_\_\_\_\_\_ continents: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



* Early Paleozoic Life
	+ Early Paleozoic Life was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ No \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ had evolved, so all were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Beginning of Cambrian time-1st animals with hard parts like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ By end of Cambrian time-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ By Ordovician time-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Cephalopod-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organism on earth
* Late Paleozoic History
	+ Spans about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Includes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ periods
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the continental mass that formed the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_, consisting of the present-day \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* As Laurasia was forming, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ moved \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* By the end of Paleozoic, all of the continents had \_\_\_\_\_\_\_\_\_ into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* This changed climate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Most of the interior of Pangaea became \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Late Paleozoic Life
	+ During this time organisms diversified dramatically
	+ Some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, plants that had adapted to survive at \_\_\_\_\_\_\_\_\_\_\_\_\_ began moving \_\_\_\_\_\_\_\_\_\_\_\_\_\_, becoming \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Earliest land plants were about the size of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, by \_\_\_\_\_\_\_\_ of Paleozoic, had \_\_\_\_\_\_\_\_ with trees \_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ high
	+ Ocean life developed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ During Devonian-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Devonian age known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ By end of Devonian, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ started to emerge
	+ The amphibians rapidly developed and diversified because they had \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from other land dwellers
	+ By the end of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period, large tropical \_\_\_\_\_\_\_\_\_\_\_\_\_ extended across \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_ deposits originated in these swamps
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ appeared
* The Great Paleozoic Extinction
	+ The world’s climate became very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ probably causing the dramatic \_\_\_\_\_\_\_\_\_\_\_\_ of many species
	+ During the Permian Period-\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ The Late Paleozoic Extinction was the greatest of at least \_\_\_\_\_ mass extinctions over the past \_\_\_\_\_\_\_\_\_ million years
	+ By end of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period, \_\_\_\_\_\_\_\_ species of amphibians gone, at least \_\_\_\_\_\_\_\_\_ of marine life gone
	+ Cause is uncertain
		- Sea levels had \_\_\_\_\_\_\_\_\_\_\_ because of climates
		- Climate changes from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- At least \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cubic yards of \_\_\_\_\_\_ flowed across \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- May have been from impact from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ body

**Mesozoic Era: Age of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Spanned about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Divided into \_\_\_\_\_\_\_ periods:
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Beginning of the breakup of Pangaea continued for \_\_\_\_\_\_\_ million years through the Mesozoic and into the Cenozoic era
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ became dominant and remained challenged for over \_\_\_\_\_\_\_\_\_\_\_\_\_ million years
* Mesozoic History
	+ Began with most of the world’s land \_\_\_\_\_\_\_\_\_\_ sea level; then shallow seas invaded much of western \_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_ coastal regions
		- These shallow seas created great swamps like those of the Paleozoic era forming \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deposits that are important in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ As Pangaea \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ plate began to override \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Lead to forming \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. By end of Mesozoic, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ began to form
* Mesozoic Life
	+ When era began, life forms were the \_\_\_\_\_\_\_\_\_\_\_\_\_ of the great \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ era
	+ The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ plants that do not depend on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for fertilization
		- Quickly became the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ plants of the era
		- Ex-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Unlike amphibians, reptiles have shell-covered eggs that can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- The elimination of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was an important evolutionary stage
	+ Because of the shelled egg, \_\_\_\_\_\_\_\_\_\_\_\_ quickly became the dominant land animals
	+ Some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_); some were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
	+ Not all dinosaurs were \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Some began to \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Some returned to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ By end of the Mesozoic era-many reptiles groups became \_\_\_\_\_\_\_\_\_\_\_\_
	+ After extinction, only a few reptiles survived to recent times-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Extinction of dinosaurs and other animals most likely caused by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that collided with Earth
	+ They think the impact created \_\_\_\_\_\_\_\_\_\_\_ quantities of \_\_\_\_\_\_\_\_\_ that blocked out the \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Without the sun, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then \_\_\_\_\_\_\_\_\_\_\_\_\_\_ died, then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ died.

**Cenozoic Era: Age of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Cenozoic era-“era of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”
* Encompasses the past \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Post-dinosaur era, the time of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, including \_\_\_\_\_\_\_\_
* Divided into periods of very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distribution, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period (\_\_\_\_\_\_million years) and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_period (\_\_\_\_\_\_\_\_\_\_\_\_ million years)
* Cenozoic North America
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during the Cenozoic era caused many events of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ coastal regions were far removed from and \_\_\_\_\_\_\_\_ plate boundary, so they were \_\_\_\_\_\_\_\_\_\_
* Cenozoic Life
	+ Even though Cenozoic is called the age of mammals, it could also be called the age of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Angiosperms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ plants with \_\_\_\_\_\_\_\_\_\_\_ seeds replaced gymnosperms as dominant land plants
		- Influenced evolution of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Mammals replaced
	+ Mammals bear \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ temperature
	+ Even though mammals and dinosaurs emerged at the \_\_\_\_\_\_\_\_ time in the late \_\_\_\_\_\_\_\_\_\_\_\_\_ period, mammals remained \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Adaptations like being \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (could search for food during any \_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ of day), developing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and having more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ allow mammals to lead more active lives than reptiles
	+ Some groups of mammals became very \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Many were common up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years ago
	+ However, a wave of late \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ extinctions rapidly eliminated these animals from the landscape (during the last \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
	+ In North America, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ both relatives of the elephant became extinct
	+ Cause of extinction is debatable
	+ Some think it is because of the last ice age
	+ BUT-the animals had \_\_\_\_\_\_\_\_\_\_\_\_ other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ advances and other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ periods
	+ Some scientists believe that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hurried the decline of these animals by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ large forms

**New Mexico Geologic History**

**Precambrian**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rocks of more than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years old have been found
* These rocks form the \_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ along the east side of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Oldest of the Precambrian rocks found in the \_\_\_\_\_\_\_\_\_\_\_\_ part of the state in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ mountains dating \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years old
* Most likely have been \_\_\_\_\_\_\_\_\_ and later \_\_\_\_\_\_\_\_\_\_\_ by the \_\_\_\_\_\_\_\_\_\_ of mountain chains and \_\_\_\_\_\_\_ of sediments
* During Precambrian=NM had \_\_\_\_\_\_\_\_\_\_\_\_\_ activity, mountain building, and episodes of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ under the \_\_\_\_\_\_\_
* Only remnants of these old mountain systems remain

**Paleozoic**

* State was covered by vast shallow \_\_\_\_\_\_\_, from which large deposits of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ accumulated
* During later part of Paleozoic, \_\_\_\_\_\_\_\_\_ mountains formed, uplifting the central part of the state
* Toward \_\_\_\_\_\_\_\_\_\_\_ part of NM, a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ developed. As the reef was cut of from the sea, the evaporation of water left deposits of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that can be found today

**Mesozoic**

* \_\_\_\_\_\_\_\_\_\_\_\_\_ trend
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ roamed much of the state
* Many of the rocks of the \_\_\_\_\_\_\_\_\_\_ part of the state included the colorful red, green, gray, brown, and white sandstone and shale were deposited by \_\_\_\_\_\_\_\_\_\_\_ that flowed toward the \_\_\_\_\_\_\_
* Later in the era, the inland \_\_\_\_\_\_ once again returned and NM was on the western shore of a great shallow \_\_\_\_\_\_\_\_\_\_ covering most of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cenozoic**

* Much change in the NM Landscape
* \_\_\_\_\_\_\_\_\_ mountains rose and \_\_\_\_\_\_\_\_\_\_\_\_ produced a thick layer of \_\_\_\_\_\_\_\_\_\_\_\_\_rock that covered much of NM
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ was formed about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* In addition, stresses in the \_\_\_\_\_\_\_\_\_\_\_ produced the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ that divides that state in half called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Within the last \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years, NM has seen tremendous volcanic eruptions, such as those that produced the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The continuous \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of sediments in recent times have produced many of the more scenic landscapes of the stae, such as its colorful mesas \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_