**Unit 3 – Learning Goals for History of the Earth**

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| **Big Picture**: Students should understand the role of energy in the various processes that shaped the Earth in the past and continue to shape the Earth today. |
| **Content Goals** | **Skills Goals** |
| Students will be able to:* Identify properties of metamorphic, igneous, and sedimentary rock
* Identify rocks based on their properties
* Describe the various processes in the rock cycle that transform rocks
* Order rock layers based on Law of Superposition and Index Fossils
* Explain how rocks or events can be dated using absolute and relative dating
* Associate geologic eras and periods with events in Earth’s history
* Explain how energy changes (heating, cooling) drive plate movement
* Explain how the core of Earth generates energy required for plate tectonics
* Explain how scientists use fossil evidence, position of rock layers, and other geologic features to interpret Earth’s history
 | Students will be able to:* Use factor-label method to convert from one unit of measure to another
* Use information provided in charts and graphs to analyze patterns in data
* Identify the topic, state the main idea, and identify the key supporting statements in a scientific article
* Make a graph using all of the components of the EDR
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| **Assessment**: How will mastery of content and skills be assessed?* Article evaluation will show whether students can identify topic and summarize main idea
* Answer questions regarding data collected in the laboratory
* Quizzes and tests will show if students have mastered the content goals
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| **Content Vocabulary:**Metamorphic rockSedimentary rockIgneous rockMagmaLavaIntrusiveExtrusive | WeatheringErosionDeposition Index fossilLaw of SuperpositionOutcrop Disconformity/uncomformityRelative AgeAbsolute Age | FissionPlate tectonicsConvergent boundary Divergent boundaryTransform fault |

  

