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| M. Angileri | **6th grade science** | **LP 19-20 2-17-19 Materials Matter #2** | | | | |
| **NGSS Standards** | **MS-ESS2-1**  **DCI**  **S & E practices**  **CCC** | Develop a model to describe the cycling of Earths materials and the flow of energy that drives this process.  **All Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems. This energy is derived from the Sun and Earth’s hot interior. The energy that flows and matter that cycles produce chemical and physical changes in Earth’s materials and living organisms.**  **Develop and Using Models: Develop and use models to describe phenomena.**  **Explanations of stability and change in natural or designed systems can be constructed by examining the changes over timeand processes at different scales, including the atomic scale** | | | | |
| Essential Question | What processes cause the cycling of Earth’s materials? | | | | | |
| Vocabulary: | **Energy:** The ability of a system to do work. Energy is required for changes to happen within a system.  **Matter**: Anything that has mass and takes up space.  **Rock Cycle:** The continual formation of igneous rock (cooled magma), sedimentary rock (cemented and compacted sediments), and metamorphic rock (rocks changed from heat and pressure), and the change from one rock type to another  **Igneous Rock**: is formed when lava or magma cools and solidifies. Lava cools quickly and forms rocks with small crystals, while magma cools more slowly and forms rocks with larger crystals.  **Metamorphic Rock:** is formed deep underground where heat and pressure cause existing rocks to be changed in both mineral composition and structural characteristics.  **Sedimentary Rock**: forms when particles of other rocks are deposited in layers and are compacted (crushed together),and cemented (binding of the sediments). | | | | | |
|  | **MONDAY** | | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| Content Objective: |  | |  | SW demonstrate comprehension/Application of how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems** interpreting/constructing models of the rock cycle. | SW demonstrate comprehension/Application of how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems** interpreting/constructing models of the rock cycle. | SW demonstrate comprehension/Application of how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems** interpreting/constructing models of the rock cycle. |
| Language objective |  | |  | SW read/write to describe how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems using sentence frames.** | SW read/write to describe how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems using sentence frames.** | SW read/write to describe how **Earth’s processes are the result of energy flowing and matter cycling within and among the planet’s systems using sentence frames.** |
| In class today |  | |  | Read Scopepedia Intro and sedimentary Rock  Part 1 Rock cycle | Read scopepedia Metamorphic Rock  Rock Cycle Metamorphic Rock | Read Scopepedia Igneous Rocks  Rock Cycle Igneous Rocks |

Clarification Statement: Emphasis is on the processes of melting, crystallization, weathering, deformation, and sedimentation, which act together to form minerals and rocks through the cycling of Earth’s materials.