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| **Standard #** | **WEEK** | **Standards/Objectives/Lesson Plans** | **Dates:** | |
| **Taught** | **Tested** |
| Technology & Safety | Week 1 | Rules and Procedure; starter demo labs and activities, scientific method |  |  |
| 6.11 | Week 2 | Develop and use models of Earth’s interior composition to illustrate the resulting magnetic field (e.g., magnetic poles) and to explain its measurable effects (e.g., protection from cosmic radiation). |  |  |
| 6.6 | Week 3 | Provide evidence from data of the distribution of fossils and rocks, continental shapes, and seafloor structures to explain past plate motions. |  |  |
| 6.9  6.4 | Week 4 | Use models to explain how the flow of Earth's internal energy drives a cycling of matter between Earth's surface and deep interior causing plate movements (e.g., mid-ocean ridges, ocean trenches, volcanoes, earthquakes, mountains, rift valleys, volcanic islands).  Construct explanations from geologic evidence (e.g., change or extinction of particular living organisms; field evidence or representations, including models of geologic cross-sections; sedimentary layering) to identify patterns of Earth's major historical events (e.g., formation of mountain chains and ocean basins, significant volcanic eruptions, fossilization, folding, faulting, igneous intrusion, erosion). |  |  |
| 6.9  6.4 | Week 5 | Use models to explain how the flow of Earth's internal energy drives a cycling of matter between Earth's surface and deep interior causing plate movements (e.g., mid-ocean ridges, ocean trenches, volcanoes, earthquakes, mountains, rift valleys, volcanic islands).  Construct explanations from geologic evidence (e.g., change or extinction of particular living organisms; field evidence or representations, including models of geologic cross-sections; sedimentary layering) to identify patterns of Earth's major historical events (e.g., formation of mountain chains and ocean basins, significant volcanic eruptions, fossilization, folding, faulting, igneous intrusion, erosion). |  |  |
| 6.8 | Week 6 | Plan and carry out investigations that demonstrate the chemical and physical processes that form rocks and cycle Earth’s materials (e.g., processes of crystallization, heating and cooling, weathering, deformation, and sedimentation). |  |  |
| 6.10 | Week 7 | Use research-based evidence to propose a scientific explanation regarding how the distribution of Earth’s resources such as minerals, fossil fuels, and groundwater are the result of ongoing geoscience processes (e.g., past volcanic and hydrothermal activity, burial of organic sediments, active weathering of rock). |  |  |
| 6.5 | Week 8 | Use evidence to explain how different geologic processes shape Earth’s history over widely varying scales of space and time (e.g., chemical and physical erosion; tectonic plate processes; volcanic eruptions; meteor impacts; regional geographical features, including Alabama fault lines, Rickwood Caverns, and Wetumpka Impact Crater). |  |  |