Unit 4 Theme: Affecting Change (Geology)

Students will observe, describe, and identify the minerals found in rocks, explain the rock cycle, and describe how rock and fossil evidence is used to infer Earth’s history.

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|  | **I can statements:** | No | | | | | Kind of | | | | | Yes | | | |
| G1 | I can classify substances as mineral or non-mineral. | Pre-test | | | | |  | | | | |  | | | |
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| Post-test | | | | |  | | | | |  | | | |
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| G2 | I can define and explain how to identify the properties of minerals; i.e., hardness, luster, streak, crystal form, and cleavage and use a taxonomic key to identify a specific mineral. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G3 | I can compare rocks and minerals and describe how they are related. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G4 | I can describe the formation of sedimentary rocks and use the characteristics of sedimentary rocks to determine if a given rock is sedimentary. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G5 | I can describe the formation of intrusive and extrusive igneous rocks and use the characteristics of igneous rocks to determine if a given rock is igneous. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G6 | I can describe the formation of metamorphic rocks and use the characteristics of metamorphic rocks to determine if a given rock is metamorphic. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G7 | I can trace multiple paths through the rock cycle and explain how the changes from one rock type to another occur. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G8 | I can explain the deposition of rock layers in horizontal layers over time. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G9 | I can describe how fossils are formed and explain how they are used to determine the age of the rocks. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G10 | I can explain how the weathering and erosion can cause changes in the earth’s surface. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | | |  | | | | |  | | | |
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| G11 | I can theorize the relative age of rock formations when given a diagram or picture. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G12 | I can describe how energy from earthquakes can cause changes in the earth’s surface. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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| G13 | I can describe how energy from volcanoes can cause changes in the earth’s surface. | Pre-test | | | |  | | | | |  | | | | |
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| Post-test | | | |  | | | | |  | | | | |
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