

- PS 1 Students will use fossils, radiometric dating and stratigraphic relationships and geologic maps (e.g. cross cutting, superposition, uniformitarianism) to interpret Earth's history. ([SG1](#))
- PS 2 Students will interpret the geologic conditions and processes that form different rocks. ([SG2](#))
- PS 3 Students will distinguish between the processes that form plutonic (intrusive) and volcanic (extrusive) igneous rocks of differing compositions. ([SG2](#))
- PS 4 Students will differentiate between processes that form various types of sedimentary rocks. ([SG2](#))
- PS 5 Students will investigate the evidence for plate tectonics. ([SG3](#))
- PS 6 Students will analyze the mechanisms that drive plate motion, the different types of plate boundaries, and how boundary type relates to mountain building, earthquakes, volcanism, and features such as island arcs, hot spots, and mid ocean ridges. ([SG3](#))
- PS 7 Students will classify volcanoes, using their interior/exterior features, magma composition and their plate tectonic settings. ([SG3](#))
- PS 8 Students will evaluate how climate systems affect landforms on the surface of the Earth. ([SG4](#))
- PS 9 Students will analyze the effects of climate on weathering processes and soil formation. ([SG4](#))
- PS 10 Students will characterize the geologic processes and resulting landforms of desert and glacial areas. ([SG4](#))
- PS 11 Students will investigate the characteristics, geologic processes, and human impacts associated with surface and groundwater as a natural resource. ([SG4](#))
- PS 12 Students will apply geologic knowledge to the use of resources in the Earth and the control of human impacts on Earth's systems. ([SG5](#))
- PS 13 Students will research current controversies regarding the extraction and use of geologic resources. ([SG5](#))

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PS 14 Students will compare and contrast the impacts of using energy resources obtained from the Earth, with those of energy alternatives. ([SG5](#))