

Curriculum Map

Subject: Science	Grade: 6	
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Time Frame	Topic	Content	Resources	Assessment
4 Weeks	Scientific Method/Measurement	students will understand how to apply the steps of the scientific method, how to write a lab report, lab safety, science tools and how to use them, how to use the metric system	Text, Brainpop, spongebob worksheets, simpson worksheets, bellringers, ppt presentations on graduated cylinder, TBB, rulers, SI	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes, tests
3 Weeks	Earth's Resources Rocks: Mineral Mixtures	Students will understand that many materials used by people come from rocks and minerals, rocks are classified based on how they formed and their mineral composition, that fossils are part of the evidence scientists use to infer changing conditions at the Earth's surface through time	Text, brainpop, rock cycle lab game, ppt on rock cycle, igneous, metamorphic and sedimentary rocks	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes, tests
3 Weeks	Energy Resources	Students will understand that Earth's natural resources may be renewable or nonrenewable, that conservation and recycling are important, how fossil fuels form, where they can be found in the United States, and the	Text, brainpop, video on fossil fuels and alternative energy sources	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes,

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		environmental problems associated with fossil fuels, the alternatives to fossil fuels and the advantages and disadvantages of these energy resources		tests
2 Weeks	The Rock and Fossil Record	Students will understand the scientists use the rock and fossil record to decipher Earth's history, compare and contrast modern geology theories and that the forces that shaped the Earth are still at work today, relative dating and how the geologic column is used to determine the sequence of rock formations, absolute dating and radioactive decay can calculate the age of rock, fossils are used to date rocks, geologic and biologic events occur in each geologic era	Text, brainpop, video, ppt, labs	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes, tests
3 Weeks	The Restless Earth Plate Tectonics	students will understand the composition and physical structure of the Earth layers, the crust broken	text, brainpop, foldables, models	bellringers, notebooks, lab reports, oral

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		into plates and how scientists use seismic waves to map Earth's interior, continental drift, mid-ocean ridges, sea-floor spreading evidence in magnetic strips, cause of plate movements and types of boundaries, stress on rocks causes folding and faulting and mountain formation due to tectonic forces and volcanic activity		questioning, observations, homework, quizzes, tests
2 Weeks	Earthquakes	students will understand where earthquakes occur and what causes them, fault types, wave travel, how seismographs are used, difference between focus and epicenter, measure of magnitude on Richter scale, earthquake forecasting, technologies for earthquake proofing buildings, safety procedures	Text, brainpop, videos, maps, labs	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes, tests
2 Weeks	Volcanoes	students will understand how the composition of magma affects eruptions, identify the internal structure of a volcano, types of lava and pyroclastic material, identify	text, brainpop, video, foldables, ppt, websites	bellringers, notebooks, lab reports, oral questioning, observations,

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		different types of volcanoes and physical features created by volcanoes, connection between volcanic activity and tectonic movement		homework, quizzes, tests
2 Weeks	Reshaping the Land Weathering and Soil Formation	students will understand that processes such as ice wedging, abrasion, plant and animal activity contribute to mechanical weathering and water and acids contribute to chemical weathering, that rock type, climate, elevation affect rate of weathering, source of soil formation, the types and effect of climate, methods to conserve soil erosion and nutrient loss	text, brainpop, diagrams, lab, ppt	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes, tests
2 Weeks	Flow of Fresh Water	students will understand the water cycle and the role of rivers in the movement of fresh water, and the way they shape the land and types of rivers, landforms created by river deposits, flood, agriculture, aquifers,	text, brainpop, ppt, lab	bellringers, notebooks, lab reports, oral questioning, observations, homework, quizzes,

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		how wells and springs bring groundwater to surface and formation of caves, pollution of fresh water and methods for treating it and methods of conservation		tests
1 Week	The Movement of Ocean Water	Students will understand the different factors that affect the movement of ocean water (currents, waves, tides), and how these movements affect land, climate and organisms	Text, brainpop	oral questions, observations