



MARIETTA CITY SCHOOLS THIRD GRADE SCIENCE PACING GUIDE

Instructional Segment:	Rocks, Soils, and Fossils	Under the Sun	Pollution and Conservation
Estimated Time	14 weeks	14 weeks	8 weeks
Crosscutting Concepts	<ul style="list-style-type: none"> • Patterns • Cause and Effect • Structure and Function • Stability and Change 	<ul style="list-style-type: none"> • Structure and Function • Cause and Effect • Systems and System Models • Energy and Matter 	<ul style="list-style-type: none"> • Systems and System Models • Cause and Effect • Stability and Change
Anchoring Phenomenon	Show samples of rocks (metamorphic, sedimentary, and igneous). Allow students to observe and find similarities and differences.	Project a map of the cities in Georgia onto the board at the front of the room. Place students into small groups of 3-4, making sure that you have at least five groups to include all of the geographic regions. Allow the groups to each select a different geographic region, and then pick two cities from that region to research.	Video of Sea Bin Project
Core Ideas	<ul style="list-style-type: none"> • Rock classification • Properties of soils • Effects of water and wind on rocks and soil • Fossils • Fossilization 	<ul style="list-style-type: none"> • Georgia Plants, Animals, Habitats • Animal Adaptation • Conservation of Energy • Energy Transfer 	<ul style="list-style-type: none"> • Human Impacts on Earth Systems • Earth and Human Activity • Conservation • Recycling
Science and Engineering Practices	<ul style="list-style-type: none"> • Asking questions and defining problems • Developing and using models • Planning and carrying out investigations • Constructing explanations and designing solutions • Engaging in argument from evidence • Obtaining, evaluating, and communicating information 	<ul style="list-style-type: none"> • Planning and carrying out investigations • Engaging in argument from evidence • Constructing explanations and designing solutions • Using mathematics and computational thinking • Obtaining, evaluating, and communicating information 	<ul style="list-style-type: none"> • Engaging in argument from evidence • Asking questions • Designing a model • Obtaining, evaluating, and communicating information
GSE	S3E1 a, b, c; S3E2 a, b; S3L1c	S3L1 a, b, c S3P1 a, b, c	S3L2 a, b

Updated May 2022