

Earth Science Pacing Guide 2022-2023

***NOTE:** This guide identifies an **APPROXIMATE** place at which teachers should be in their instruction. Individual pace **MAY VARY** according to student supports and needs.

Quarter 1

Date	Earth Science	CLRI Connections
Week 1 9.05.22 - 9.09.22* *9.05.22 - Labor Day	Introduction to classroom structures and routines	
Week 2 9.12.22 - 9.16.22	Unit 1- Introduction to Earth and Space Lesson 1.1- Studying Earth <ul style="list-style-type: none"> ● Exploration 1- Exploring Patterns and Systems on Earth ● Exploration 2- Evidence of Changes in Systems 	<ul style="list-style-type: none"> ● Unit Project- Map Your School
Week 3 9.19.22 - 9.23.22	Unit 1- Introduction to Earth and Space Lesson 1.2- Earth's Systems <ul style="list-style-type: none"> ● Exploration 1- Modeling Earth's Systems ● Exploration 2- Visualizing Data 	<ul style="list-style-type: none"> ● Engineering Connection- Building Designs (p. 40)
Week 4 9.26.22 - 9.30.22	Unit 1- Introduction to Earth and Space Lesson 1.2- Earth's Systems <ul style="list-style-type: none"> ● Exploration 3- Viewing Earth From Above Unit 2- Systems of Matter and Energy Lesson 2.1- Earth's Energy <ul style="list-style-type: none"> ● Exploration 1- Energy Sources and Flows ● Exploration 2- Earth's External Energy 	<ul style="list-style-type: none"> ● Social Studies Connection- Regional Maps (p. 40) ● Can You Explain It? Mt. Pinatubo, Philippines
Week 5 10.03.22 - 10.07.22	Unit 2- Systems of Matter and Energy Lesson 2.1- Earth's Energy <ul style="list-style-type: none"> ● Exploration 3- Distribution of Sunlight ● Exploration 4- Earth's Internal Energy 	<ul style="list-style-type: none"> ● In the Community- Geography and Daily Life (p. 45J) ● Engineering- Urban Heat Islands (p. 56)
Week 6 10.10.22 - 10.14.22 *10.10.22 - Indigenous Peoples' and Italian- Heritage Day	Unit 2- Systems of Matter and Energy Lesson 2.2- Minerals <ul style="list-style-type: none"> ● Exploration 1- Introducing Minerals ● Exploration 2- Properties of Minerals 	<ul style="list-style-type: none"> ● In the Community- Minerals and Culture (p. 45J) ● Art Connection- Minerals and Art (p. 106)
Week 7 10.17.22 - 10.21.22	Unit 2- Systems of Matter and Energy Lesson 2.3- The Rock Cycle <ul style="list-style-type: none"> ● Exploration 1- Rock and the Rock Cycle ● Exploration 2- Sedimentary Rock ● Exploration 3- Igneous Rock ● Exploration 4- Metamorphic Rock 	
Week 8 10.24.22 - 10.28.22	Unit 2- Systems of Matter and Energy Lesson 2.4- Cycles and Cycle Models <ul style="list-style-type: none"> ● Exploration 1- Carbon in Earth's Systems 	<ul style="list-style-type: none"> ● Can You Explain It? Lake Nyos, Cameroon

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	<ul style="list-style-type: none"> ● Exploration 2- System Models ● Exploration 3- Other Chemical Cycles on Earth 	
Week 9 10.31.22 - 11.04.22	Unit 3- Natural Resources Lesson 3.1- Designing Solutions to Resource Problems <ul style="list-style-type: none"> ● Exploration 1- Managing Natural Resources ● Exploration 2- Define a Problem ● Exploration 3- Develop Solutions ● Exploration 4- Optimize a Solution ● Exploration 5- The Use of Iteration Lesson 3.2- Rock and Mineral Resources <ul style="list-style-type: none"> ● Exploration 1- The History of Rock and Mineral Extraction ● Exploration 2- Minerals for New Technologies ● Exploration 3-Rock and Mineral Extraction ● Exploration 4- Impacts of Mineral Use 	<ul style="list-style-type: none"> ● Native American Quarrying and Mining (p. 130) ● Figure 4: World Mineral Production from 2005-2009 (p. 130) ● Surface Mining Methods in South Africa and India (p.136)
Week 10 11.07.22 - 11.11.22* *11.08.22 - Election Day *11.11.22 - Veterans Day	Unit 3- Natural Resources Lesson 3.3- Energy Resources <ul style="list-style-type: none"> ● Exploration 1- Petroleum and Natural Gas ● Exploration 2- Coal, Tar Sands, and Oil Shale ● Exploration 3- Solar and Wind Energy ● Exploration 4- Hydroelectric, Tidal, and Geothermal Energy 	