

Grade 5 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.

*Mandatory labs identified are required for understanding the topic and must be included during science instructional time on a weekly basis.

Quarter 1

Date	Grade 5 Topics (topic guides are linked) Grade 5 CLRI Connections (book information is linked)	Mandatory Science Labs
Week 1 9.05.22 – 9.09.22* *9.05.22 - Labor Day	Establish Classroom Routines Overview of Class Structure	
Week 2 9.12.22 – 9.16.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Topic 1 Opener: <i>u</i> Connect Lab – What’s in the box?
Week 3 9.19.22 – 9.23.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 1: <i>u</i> Investigate Lab – How do we describe materials?
Week 4 9.26.22- 9.30.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 2: <i>u</i> Investigate Lab – How can you detect matter without seeing it?
Week 5 10.03.22 – 10.07.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 3: <i>u</i> Investigate – How can you use properties to identify solids?
Week 6 10.10.22 – 10.14.22* *10.10.22 - Indigenous Peoples’ and Italian-Heritage Day	Unit 1 – Physical Science Topic 2 – Changes in Matter	Topic 2 Opener: <i>u</i> Connect Lab – What happens to mass when objects are mixed?
Week 7 10.17.22 – 10.21.22	Unit 1 – Physical Science Topic 2 – Changes in Matter	Lesson 2: <i>u</i> Investigate Lab – Which properties are affected by temperature?
Week 8 10.24.22 – 10.28.22	Unit 1 – Physical Science Topic 2 – Changes in Matter	Lesson 3: <i>u</i> Investigate – How can you identify chemical changes?
Week 9 10.31.22 – 11.04.22	Unit 1 – Physical Science Topic 2 – Changes in Matter	Lesson 4: <i>u</i> Investigate – How can you separate a mixture?
Week 10 11.07.22 – 11.11.22* *11.08.22 - Election Day *11.11.22 – Veterans Day	Unit 2 – Earth and Space Science Topic 3 – Earth’s Systems	Topic 3 Opener: <i>u</i> Connect Lab – How Can You Model Earth?

[Sample Grade 5 Lab Activity Lesson Plan-](#) Use this lesson as an example of how to break up a 30-minute hands-on activity from 1 to 2 days.

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Week 11 11.14.22– 11.18.22	Unit 2 – Earth and Space Science Topic 3 – Earth’s Systems	Lesson 1: <i>u</i> Investigate Lab – How does water move through soil?
Week 12 11.21.22 – 11.25.22* *11.24.22-11.25.22 Thanksgiving Recess	Unit 2 – Earth and Space Science Topic 3 – Earth’s Systems	Lesson 2: <i>u</i> Investigate Lab – How does a greenhouse work?
Week 13 11.28.22 – 12.02.22	Unit 2 – Earth and Space Science Topic 3 – Earth’s Systems	Lesson 3: <i>u</i> Investigate – How does the geosphere affect the hydrosphere?
Week 14 12.05.22 – 12.09.22	Unit 2 – Earth and Space Science Topic 4 – Earth’s Water	Topic 4 Opener: <i>u</i> Connect Lab – Where Does Water Flow...and How Fast?
Week 15 12.12.22 – 12.16.22	Unit 2 – Earth and Space Science Topic 4 – Earth’s Water	Lesson 1: <i>u</i> Investigate Lab – Where did that water come from?
Week 16 12.19.22 – 12.23.22* *12.26.22-1.02.23 Winter Recess	Unit 2 – Earth and Space Science Topic 4 – Earth’s Water	Lesson 2: <i>u</i> Investigate Lab – How can you find water underground?
Week 17 1.03.23 – 1.06.23* *1.02.23 Winter Recess	Unit 2 – Earth and Space Science Topic 4 – Earth’s Water Topic 4 Lesson 3: “Life in the Ocean: The Story of Oceanographer Sylvia Earle” by Claire A. Nivola	Lesson 3: <i>u</i> Investigate – How can you separate salt from water?
Week 18 1.09.23 – 1.13.23	Unit 2 – Earth and Space Science Topic 5 - Human Impact on Earth’s Systems	Topic 5 Opener: <i>u</i> Connect Lab –How can we reuse materials to design new products?
Week 19 1.16.23 – 1.20.23* *1.16.2023 MLK Jr. Day	Unit 2 – Earth and Space Science Topic 5 - Human Impact on Earth’s Systems	Lesson 1: <i>u</i> Investigate Lab – Where are the metals?
Week 20 1.23.23 – 1.27.23	Unit 2 – Earth and Space Science Topic 5 - Human Impact on Earth’s Systems	Lesson 2: <i>u</i> Investigate Lab – What color is best at capturing solar energy?

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Quarter 3

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Week 21 1.30.23 – 2.03.23	Unit 2 – Earth and Space Science Topic 5 - Human Impact on Earth's Systems	Lesson 3: Quest Check-In Lab – How do building materials affect energy efficiency?
Week 22 2.06.23 – 2.10.23	Unit 2 – Earth and Space Science Topic 5 - Human Impact on Earth's Systems	Lesson 4: <i>u</i> Investigate Lab – How can you collect rainwater?
Week 23 2.13.23 – 2.17.23	Unit 2 – Earth and Space Science Topic 6 – Solar System Topic 6 Lesson 1 : “Starstruck: The Cosmic Journey of Neil DeGrasse Tyson” by Kathleen Krull and Paul Brewer	Topic 6 Opener: <i>u</i> Connect Lab –How Big is the Sun?
*Mid-Winter Recess 2.20.23 – 2.24.23		
Week 24 2.27.23 – 3.03.23	Unit 2 – Earth and Space Science Topic 6 – Solar System Topic 6 Lesson 2 : “Hidden Figures – The True Story of Four Black Women and the Space Race” by Margot Lee Shetterly with Winifred Conkling	Lesson 2: <i>u</i> Investigate Lab – How does a planet’s distance from the sun affect its path?
Week 25 3.06.23 – 3.10.23	Unit 2 – Earth and Space Science Topic 6 – Solar System	Lesson 3: <i>u</i> Investigate – How hard do space objects hit Earth?
Week 26 3.13.23 – 3.17.23	Unit 2 – Earth and Space Science Topic 6 – Solar System Topic 7 – Patterns in Space Topic 6 Enrichment : “The Astronaut with a Song for the Stars: The Story of Dr. Ellen Ochoa” by Julia Finley Mosca Topic 6 Enrichment : “Mars Science Lab Engineer: Diana Trujillo” by Kari Cornell Topic 6 Enrichment : “Baseball on Mars Béisbol en Marte” by Rafael Rivera, Jr. and Tim Hoppey	
Week 27 3.20.23 – 3.24.23	Unit 2 – Earth and Space Science Topic 7 – Patterns in Space	Topic 7 Opener: <i>u</i> Connect Lab – How can spinning affect a planet's shape?
Week 28 3.27.23 – 3.31.23	Unit 2 – Earth and Space Science Topic 7 – Patterns in Space	Lesson 1: <i>u</i> Investigate Lab – How long do objects take to fall?
*Spring Recess 4.03.23-4.07.23		
Week 29 4.10.23 – 4.14.23	Unit 2 – Earth and Space Science Topic 7 – Patterns in Space	Lesson 1: Quest Check-In Lab – How does gravity affect matter?
Week 30 4.17.23 – 4.21.23	Unit 2 – Earth and Space Science Topic 7 – Patterns in Space	Lesson 2: <i>u</i> Investigate Lab – How are we spinning?

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Quarter 4

Date	Grade 5 Topics (topic guides are linked) Grade 5 CLRI Connections (book information is linked)	Mandatory Science Labs
Week 31 4.24.23 – 4.28.23* *4.26.23 – Early Release Day *4.27.23 – Superintendent Conference Day	Unit 2 – Earth and Space Science Topic 7 – Patterns in Space	Topic 7 Lesson 3: <i>u</i> Investigate – What star patterns can you see?
Week 32 5.01.23 – 5.05.23	Unit 3 – Life Science Topic 8 – Energy and Food	Topic 8 Opener: <i>u</i> Connect Lab – How much food do you need?
Week 33 5.08.23 - 5.12.23* *5.10.23 – Early Release Day *5.11.23 – Superintendent Conference Day	Unit 3 – Life Science Topic 8 – Energy and Food	Lesson 2: <i>u</i> Investigate Lab – What matter do plants need to make food?
Week 34 5.15.23 – 5.19.23	Unit 3 – Life Science Topic 8 – Energy and Food	Lesson 2: Quest Check-In Lab – What plant foods provide the most energy and nutrients?
Week 35 5.22.23 – 5.26.23	Unit 3 – Life Science Topic 8 – Energy and Food	Lesson 3: <i>u</i> Investigate – How do animals get energy from the sun?
Week 36 5.29.23– 6.02.23* *5.29.2023 – Memorial Day	Unit 2 – Life Science Topic 9 – Matter and Energy in Ecosystems	Topic 9 Opener: <i>u</i> Connect Lab – How do the parts in a fish tank make up a system?
Week 37 6.05.23– 6.09.23	Unit 2 – Life Science Topic 9 – Matter and Energy in Ecosystems	Lesson 2: <i>u</i> Investigate Lab – How can matter change in an ecosystem?
Week 38 6.12.23 – 6.16.23	Unit 2 – Life Science Topic 9 – Matter and Energy in Ecosystems	Lesson 3: <i>u</i> Investigate – How does change affect organisms in an ecosystem?
Week 39 6.19.23 – 6.23.23* *6.19.23 – Juneteenth Holiday *6.23.23 – Rating Day/SCD	Unit 2 – Life Science Topic 9 – Matter and Energy in Ecosystems	Lesson 3: Quest Check-In Lab – How does change affect organisms in an ecosystem?