

Grade 2 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 2 Topics (topic guides are linked) Grade 2 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 Opener: <i>u</i> Connect Lab – Which object is bigger?
Week 3 9.19.22 – 9.23.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 1: <i>u</i> Investigate Lab – What is different?
Week 4 9.26.22- 9.30.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	
Week 5 10.03.22 – 10.07.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 2: <i>u</i> Investigate Lab – What can beavers tech engineer?
Week 6 10.10.22 – 10.14.22* *10.10.22 - Indigenous Peoples' and Italian-Heritage Day	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 3: <i>u</i> Investigate Lab– Which package fits the blocks?
Week 7 10.17.22 – 10.21.22	Unit 1 – Physical Science Topic 1 – Properties of Matter	Lesson 3: Quest Check-In Lab – How can you use shapes when building?
Week 8 10.24.22 – 10.28.22	Unit 1 – Physical Science Topic 1 – Properties of Matter <u>Topic 1 Enrichment:</u> “The Rainbow Mystery” by Jennifer Dussling	Lesson 4: <i>u</i> Investigate Lab– How can you make a bigger bubble?
Week 9 10.31.22 – 11.04.22	Unit 1 – Physical Science Topic 2 – Changing Matter	Topic Opener: <i>u</i> Connect Lab – How can you use all of the materials?
Week 10 11.07.22 – 11.11.22* *11.08.22 - Election Day *11.11.22 – Veterans Day	Unit 1 – Physical Science Topic 2 – Changing Matter	Lesson 1: <i>u</i> Investigate Lab – How can you change objects?

[Sample Grade 2 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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Quarter 2

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Week 11 11.14.22– 11.18.22	Unit 1 – Physical Science Topic 2 – Changing Matter	Lesson 2: <i>u</i> Investigate Lab – How does heating and cooling change matter?
Week 12 11.21.22 – 11.25.22* *11.24.22-11.25.22 Thanksgiving Recess	Unit 1 – Physical Science Topic 2 – Changing Matter	Lesson 2: Quest Check-In – How does temperature change matter overtime?
Week 13 11.28.22 – 12.02.22	Unit 1 – Physical Science Topic 2 – Changing Matter	Lesson 3: <i>u</i> Investigate Lab– What can you build?
Week 14 12.05.22 – 12.09.22	Unit 1 – Physical Science Topic 2 – Changing Matter Unit 2 – Earth and Space Topic 3 - Sky and Earth Topic 2 Enrichment: “Cosmo and the Robot” by Brian Pinkney	Topic 3 Opener: <i>u</i> Connect Lab – What covers most of the surface of the Earth?
Week 15 12.12.22 – 12.16.22	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	Lesson 1: <i>u</i> Investigate Lab – How can you make a map of a special place?
Week 16 12.19.22 – 12.23.22* *12.26.22-1.02.23 Winter Recess	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	Lesson 1: Quest Check-In Lab – How can you model landforms?
Week 17 1.03.23 – 1.06.23* *1.02.23 Winter Recess	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	
Week 18 1.09.23 – 1.13.23	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	Lesson 2: <i>u</i> Investigate Lab – Where is the best place to cross the water?
Week 19 1.16.23 – 1.20.23* *1.16.2023 MLK Jr. Day	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	Lesson 3: <i>u</i> Investigate Lab – Why do mapmakers use different maps?
Week 20 1.23.23 – 1.27.23	Unit 2 – Earth and Space Science Topic 3 – Earth’s Water and Land	Lesson 3: Quest Check-In Lab – How far is it from here to there?

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Week 21 1.30.23 – 2.03.23	Unit 2 – Earth and Space Science Topic 4 – Earth’s Processes	Topic 4 Opener: <i>u</i> Connect Lab – Which solution is better?
Week 22 2.06.23 – 2.10.23	Unit 2 – Earth and Space Science Topic 4 – Earth’s Processes	Lesson 1: <i>u</i> Investigate Lab – How do volcanoes change Earth?
Week 23 2.13.23 – 2.17.23	Unit 2 – Earth and Space Science Topic 4 – Earth’s Processes	Lesson 2: <i>u</i> Investigate Lab – How do mountains change?
*Mid-Winter Recess 2.20.23 – 2.24.23		
Week 24 2.27.23 – 3.03.23	Unit 2 – Earth and Space Science Topic 4 – Earth’s Processes Topic 4 Lesson 3: “Wangari’s Trees of Peace: A True Story from Africa” by Jeanette Winter	Lesson 3: <i>u</i> Investigate Lab – How do plants protect fields from wind?
Week 25 3.06.23 – 3.10.23	Unit 2 – Earth and Space Science Topic 4 – Earth’s Processes	Lesson 3: Quest Check-In Lab – How can you protect a coastal town from erosion?
Week 26 3.13.23 – 3.17.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Topic 5 Opener: <i>u</i> Connect Lab – How are plants and animals alike and different?
Week 27 3.20.23 – 3.24.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Lesson 1: <i>u</i> Investigate Lab – What is inside a seed or a bulb?
Week 28 3.27.23 – 3.31.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Lesson 2: <i>u</i> Investigate Lab – What do plants need to grow?
*Spring Recess 4.03.23-4.07.23		
Week 29 4.10.23 – 4.14.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Lesson 2: Quest Check-In Lab – How can you see the parts of a plant work?
Week 30 4.17.23 – 4.21.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Lesson 3: <i>u</i> Investigate Lab – What do animals need?

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Week 31 4.24.23 – 4.28.23* *4.26.23 – Early Release Day *4.27.23 – Superintendent Conference Day	Unit 3 – Life Science Topic 5 – Plants and Animals	
Week 32 5.01.23 – 5.05.23	Unit 3 – Life Science Topic 5 – Plants and Animals	Lesson 4: <i>u</i> Investigate Lab – How can you model how animals spread seeds?
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 5 – Plants and Animals	Lesson 4: Quest Check-In Lab – What is pollination?
Week 34 5.15.23 – 5.19.23	Unit 3 – Life Science Topic 6 - Habitats	Topic Opener: <i>u</i> Connect Lab – What is out there?
Week 35 5.22.23 – 5.26.23	Unit 3 – Life Science Topic 6 - Habitats	Lesson 1: <i>u</i> Investigate Lab – Who lives in a grassland?
Week 36 5.29.23– 6.02.23* *5.29.2023 – Memorial Day	Unit 3 – Life Science Topic 6 - Habitats	Lesson 1: Quest Check-In Lab – Which habitat is the best?
Week 37 6.05.23– 6.09.23	Unit 3 – Life Science Topic 6 - Habitats Topic 6 Lesson 2: “The Tree Lady” by H. Joseph Hopkins	Lesson 2: <i>u</i> Investigate Lab – What do land plants need?
Week 38 6.12.23 – 6.16.23	Unit 3 – Life Science Topic 6 - Habitats Topic 6 Lesson 3: “Beach Tail” by Karen Lynn Williams	Lesson 3: <i>u</i> Investigate Lab – How do plants survive in water?
Week 39 6.19.23 – 6.23.23* *6.19.23 – Juneteenth Holiday *6.23.23 – Rating Day/SCD	Unit 3 – Life Science Topic 6 - Habitats Topic 6 Enrichment: “Shark Lady – The story of How Eugenie Clark Became the Ocean’s Most Fearless Scientist” by Jess Keating	