

Grade 7 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 7 Topics (topic guides are linked) Grade 7 CLRI Connections (CLRI 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 – Life Science Topic 1 – The Cell System Topic 1 Opener: Henrietta Lacks Video	Lesson 1: <i>u</i> Investigate Lab – Observing Cells
Week 3 9.19.22 – 9.23.22	Unit 1 – Life Science Topic 1 – The Cell System	Lesson 2: <i>u</i> Investigate Lab – Comparing Cells
Week 4 9.26.22- 9.30.22	Unit 1 – Life Science Topic 1 – The Cell System	Lesson 4: <i>u</i> Investigate Lab – Modeling Mitosis
Week 5 10.03.22 – 10.07.22	Unit 1 – Life Science Topic 1 – The Cell System	Lesson 5: <i>u</i> Investigate Lab – Energy From the Sun*
Week 6 10.10.22 – 10.14.22* *10.10.22 - Indigenous Peoples' and Italian-Heritage Day	Unit 1 – Life Science Topic 1 – The Cell System	Lesson 6: <i>u</i> Investigate Lab – Exhaling Carbon Dioxide
Week 7 10.17.22 – 10.21.22	Unit 1 – Life Science Topic 2 – Human Body Systems	Topic 2 Opener: <i>u</i> Connect Lab – How is your body organized?
Week 8 10.24.22 – 10.28.22	Unit 1 – Life Science Topic 2 – Human Body Systems	Lesson 2: <i>u</i> Investigate Lab – Parts Working Together
Week 9 10.31.22 – 11.04.22	Unit 1 – Life Science Topic 2 – Human Body Systems	Lesson 4: <i>u</i> Investigate Lab – Body Systems Working Together
Week 10 11.07.22 – 11.11.22* *11.08.22 - Election Day *11.11.22 – Veterans Day	Unit 1 – Life Science Topic 2 – Human Body Systems	Lesson 5: <i>u</i> Investigate Lab – What are the Parts of the Nervous System?

[Sample Grade 7 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 1 – Life Science Topic 3 – Reproduction and Growth	Topic 3 Opener: <i>u</i> Connect Lab – To Care or Not to Care
Week 12 11.21.22 – 11.25.22* *11.24.22-11.25.22 Thanksgiving Recess	Unit 1 – Life Science Topic 3 – Reproduction and Growth	Lesson 3: <i>u</i> Investigate Lab – Behavior Cycles
Week 13 11.28.22 – 12.02.22	Unit 1 – Life Science Topic 3 – Reproduction and Growth	Lesson 4: <i>u</i> Investigate Lab – Watching Roots Grow
Week 14 12.05.22 – 12.09.22	Unit 1 – Life Science Topic 4 – Ecosystems	Topic 4 Opener: <i>u</i> Connect Lab – Every Breath You Take
Week 15 12.12.22 – 12.16.22	Unit 1 – Life Science Topic 4 – Ecosystems	Lesson 2: <i>u</i> Investigate Lab – Observing Decomposition
Week 16 12.19.22 – 12.23.22* *12.26.22-1.02.23 Winter Recess	Unit 1 – Life Science Topic 4 – Ecosystems	Lesson 3: <i>u</i> Investigate Lab – Following Water
Week 17 1.03.23 – 1.06.23* *1.02.23 Winter Recess	Unit 1 – Life Science Topic 4 – Ecosystems Topic 5 – Populations, Communities, and Ecosystems Topic 5 Opener: “Not just ivory - another threat for Asian elephants?”	Lesson 1: <i>u</i> Investigate Lab – Competition and Predation
Week 18 1.09.23 – 1.13.23	Unit 1 – Life Science Topic 5 – Populations, Communities, and Ecosystem	Lesson 2: <i>u</i> Investigate Lab – Primary or Secondary
Week 19 1.16.23 – 1.20.23* *1.16.2023 MLK Jr. Day	Unit 1 – Life Science Topic 5 – Populations, Communities, and Ecosystem	Lesson 3: <i>u</i> Investigate Lab – Modeling Keystone Species
Week 20 1.23.23 – 1.27.23	Unit 1 – Life Science Topic 5 – Populations, Communities, and Ecosystem	Lesson 4: <i>u</i> Investigate Lab – Ecosystem Impacts

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Week 21 1.30.23 – 2.03.23	Unit 1 – Life Science Topic 5 – Populations, Communities, and Ecosystem Unit 2 – Earth and Space Science Topic 6 – Distribution of Natural Resources	Topic 6 Opener: <i>u</i> Connect Lab – What’s in a Piece of Coal?
Week 22 2.06.23 – 2.10.23	Unit 2 – Earth and Space Science Topic 6 – Distribution of Natural Resources Lesson 1: “How does climate change affect poor people in Africa?”	Lesson 1: <i>u</i> Investigate Lab – Fossil Fuels
Week 23 2.13.23 – 2.17.23	Unit 2 – Earth and Space Science Topic 6 – Distribution of Natural Resources	Lesson 3: <i>u</i> Investigate Lab – Cool Crystals
*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 – Distribution of Natural Resources	Lesson 4: <i>u</i> Investigate Lab – An Artesian Well
Week 25 3.06.23 – 3.10.23	Unit 2 – Earth and Space Science Topic 7 – Human Impacts on the Environment Topic 7 Opener: Rachel Carson Article	Lesson 1: <i>u</i> Investigate Lab – Doubling Time
Week 26 3.13.23 – 3.17.23	Unit 2 – Earth and Space Science Topic 7 – Human Impacts on the Environment Lesson 2: “How does air pollution affect people differently?” Lesson 3: “Do hot neighborhoods affect everyone equally?”	Lesson 2: <i>u</i> Investigate Lab – It’s All in the Air
Week 27 3.20.23 – 3.24.23	Unit 2 – Earth and Space Science Topic 7 – Human Impacts on the Environment	Lesson 4: <i>u</i> Investigate Lab – Getting Clean
Week 28 3.27.23 – 3.31.23	Unit 3 – Physical Science Topic 8 – Waves and Electromagnetic Radiation Topic 8 Opener: Ellen Ochoa Article	Topic 8 Opener: <i>u</i> Connect Lab – What Are Waves?
*Spring Recess 4.03.23-4.07.23		
Week 29 4.10.23 – 4.14.23	Unit 3 – Physical Science Topic 8 – Waves and Electromagnetic Radiation	Lesson 1: <i>u</i> Investigate Lab – Waves and Their Characteristics

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Week 30 4.17.23 – 4.21.23	Unit 3 – Physical Science Topic 8 – Waves and Electromagnetic Radiation	Lesson 2: <i>u</i> Investigate Lab – Standing Waves and Wave Interference
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Quarter 4

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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 – Physical Science Topic 8 – Waves and Electromagnetic Radiation	Lesson 4: <i>u</i> Investigate Lab – Build a Wave
Week 32 5.01.23 – 5.05.23	Unit 3 – Physical Science Topic 8 – Waves and Electromagnetic Radiation	Lesson 5: <i>u</i> Investigate Lab – Light Interacting with Matter
Week 33 5.08.23 - 5.12.23* *5.10.23 – Early Release Day *5.11.23 – Superintendent Conference Day	Unit 3 – Physical Science Topic 9 – Electricity and Magnetism	Topic 9 Opener: <i>u</i> Connect Lab – Magnetic Poles
Week 34 5.15.23 – 5.19.23	Unit 3 – Physical Science Topic 9 – Electricity and Magnetism	Lesson 2: <i>u</i> Investigate Lab – Detecting Fake Coins
Week 35 5.22.23 – 5.26.23	Unit 3 – Physical Science Topic 9 – Electricity and Magnetism	Lesson 3: <i>u</i> Investigate Lab – Electric Current and Magnetism
Week 36 5.29.23– 6.02.23* *5.29.2023 – Memorial Day	Unit 3 – Physical Science Topic 9 – Electricity and Magnetism	Lesson 4: <i>u</i> Investigate Lab – Electric and Magnetic Motion
Week 37 6.05.23– 6.09.23	Unit 3 – Physical Science Topic 10 – Information Technologies	Lesson 1: <i>u</i> Investigate Lab – Electric Current and Voltage
Week 38 6.12.23 – 6.16.23	Unit 3 – Physical Science Topic 10 – Information Technologies Lesson 2 : “Can electricity reach the billion people who live without it?”	Lesson 2: <i>u</i> Investigate Lab – Constructing a Simple Computer Circuit
Week 39 6.19.23 – 6.23.23* *6.19.23 – Juneteenth Holiday	Unit 3 – Physical Science Topic 10 – Information Technologies	Lesson 3: <i>u</i> Investigate Lab – Let the Music Play

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*6.23.23 – Rating Day/SCD		
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