

Louisiana Guide to Implementing Carolina OpenSciEd: Grade 6

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Purpose

To assist teachers with the implementation of the Carolina OpenSciEd curriculum for grade 6, this document provides guidance regarding how Carolina OpenSciEd units correlate with the [Louisiana Student Standards for Science](#) (LSSS). The Carolina OpenSciEd curriculum provides ample instructional guidance for teachers. This Louisiana Guide for Implementing Carolina OpenSciEd takes it a step further by highlighting areas where teachers may need to make strategic decisions that consider student needs.

Carolina OpenSciEd Grade 6 units may include performance expectations featured in other grade levels. These units are intentionally designed to provide students with the opportunity to incrementally make sense of phenomena, building understanding and abilities over time through a coherent storyline. Modifications to the sequence or content of lessons within these units could undermine the design and should therefore be approached with caution and careful consideration.

This guidance document is considered a 'living' document, reflecting the expectation that teachers and other educators will continue to identify opportunities for improvement as it is applied in practice. Please send feedback to STEM@la.gov so that the Louisiana Department of Education (LDOE) may incorporate your suggestions when updating this guide.

2026-2027 Transitional Guidance

To assist schools and systems in implementation of OpenSciEd for Grades 6-8, the LDOE has designed transitional guidance for the 2026-2027 school year. This rolling guidance is aimed at addressing ongoing challenges while maintaining curriculum coherence and alignment with the Louisiana Student Standards for Science (LSSS).

The long-term goals of this guidance are:

- Suggestions for addressing the unique language of the LSSS;
- Coherence across Louisiana customizations; and
- Explicit pacing recommendations.

To prevent gaps in learning as guidance evolves, for the 2026-2027 school year only:

- Ecosystem Dynamics will appear on both the Grade 6 and Grade 7 scope and sequences.
- Genetics will appear on both the Grade 7 and Grade 8 scope and sequences.

This guidance is intended for one year only and will be updated for the 2027-2028 school year.

What is new this year for Grade 6:

- Ecosystem Unit added as Unit 7 on the Scope and Sequence
- Customizations for Louisiana unit order for Unit 8.1 (other units in development)

Transition Year 2026-2027 Standards by Unit

	Unit 1 Light and Matter OpenSciEd 6.1	Unit 2 Contact Forces OpenSciEd 8.1	Unit 3 Sound Waves OpenSciEd 8.2	Unit 4 Forces at a Distance OpenSciEd 8.3	Unit 5 Earth in Space OpenSciEd 8.4	Unit 6 Cells and Systems OpenSciEd 6.6	Unit 7 Ecosystem Dynamics OpenSciEd Unit 7.5
Unit Question	Why do we sometimes see different things when looking at the same object?	Why do things sometimes get damaged when they hit each other?	How can a sound make something move?	How can a magnet move another object without touching it?	Why do we see patterns in the sky, and what else is out there that we can't see?	How do living things heal?	How does changing an ecosystem affect what lives there?
Standards	6-MS-PS4-2*	6-MS-PS2-1 6-MS-PS2-2 6-MS-PS3-1	6-MS-PS4-1 6-MS-PS4-2*	6-MS-PS2-3 6-MS-PS2-5 6-MS-PS3-2	6-MS-ESS1-1 6-MS-ESS1-2 6-MS-ESS1-3 6-MS-PS2-4 6-MS-PS4-2*	6-MS-LS1-1 6-MS-LS1-2 7-MS-LS1-3*	6-MS-LS2-1 6-MS-LS2-2 7-MS-LS2-4 7-MS-LS2-5
Timing	August	September	October	November/ December	January/ February	February/ March	April/May

†6-PS1-1, 6-LS2-3, and 6-ESS3-4 are not addressed by the Grade 6 OpenSciEd units. The performance expectation can be addressed by incorporating the [Grade 6 Louisiana Sample Scope and Sequence](#).

*The performance expectation is partially addressed using the identified phenomenon and is addressed in multiple units.

Pacing and Unit Order Guidance

**Modification of the lessons, even in the ways suggested here, should be approached with careful consideration. Additional attention should be given to navigation in lessons where adjustments are made to maintain coherence from the student's perspective.*

Unit	Louisiana-Specific Guidance: Pacing and Implications for Unit Order†
Unit 1 Light and Matter OpenSciEd Unit 6.1	• Lessons 1 and 2: There is an extended self-documentation activity that is introduced in Lesson 1 and revisited three times in Lesson 3. The purpose of the extended activity is to build a documentation board of related experiences; the use of a shorter related phenomenon chart, which is also included in Lesson 1, could be utilized instead. • Lesson 3: The lab investigation in this lesson could be completed as a demonstration lab in a Scientist Circle to get a class set of data for small group analysis. • Lesson 6: The investigation with flashlights and convex lenses could be cut out or changed to a brief demonstration. • LA suggestion - Lesson 6: Although understanding how light enters the eye and is processed by the brain is important to a cohesive storyline, these are not 6th-grade standards. To condense into one day, assign a video as home learning and focus on refraction extension activities in this lesson. Note that additional adjustments may need to be made in lessons that follow to accommodate the decreased focus on how light enters the eye and how the brain responds to signals. • Lesson 8: This entire lesson could be shortened to only test glass in the box model with collaborative sense-making of what was observed, followed by the final transfer task assessment.
Guidance for Units 2-7 in development!	

† Adapted from the OpenSciEd TeacherBackground Knowledge for “How will I need to modify the unit if taught out of sequence?” and “How do I shorten or condense the unit if needed? How can I extend the unit if needed?” for each unit.

LDOE Formative Assessment Resources

LDOE formative assessment resources include a library of Louisiana educator-created discrete items and sets, LEAP Practice Test Items, and LEAP Assessment Guide Items correlated to the LSSS. These resources can be used alongside guidance from a high-quality curriculum to provide opportunities for students to showcase their learning.

Unit	Discrete Items	Sets
Light and Matter OpenSciEd 6.1	<u>LDOE Formative Assessment Items (Password- Educate2020):</u> • Spectral Signature, Telescopes (6-MS-PS4-2) <u>LEAP Practice Test Standalone Items:</u> • N/A <u>LEAP Assessment Guide Items:</u> • N/A <u>LEAP Science Released Items:</u> • N/A	<u>LDOE Formative Assessment Sets (Password- Educate2020):</u> • N/A <u>LEAP Practice Test Sets:</u> • N/A <u>LEAP Assessment Guide Sets:</u> • N/A <u>LEAP Science Released Items:</u> • N/A
Contact Forces OpenSciEd 8.1	<u>LDOE Formative Assessment Items (Password- Educate2020):</u> • Satellite, Shin Guard Design (6-MS-PS2-1) • Soccer Ball, Juan's Skateboard (6-MS-PS2-2) • Sports Balls (6-MS-PS3-1) <u>LEAP Practice Test Standalone Items:</u> • 40 (6-MS-PS2-1) • 14, 33 (6-MS-PS2-2) <u>LEAP Assessment Guide Items:</u> • N/A <u>LEAP Science Released Items:</u> • N/A	<u>LDOE Formative Assessment Sets (Password- Educate2020):</u> • Item Set: Bowling (6-MS-PS3-1, 6-MS-PS2-2) <u>LEAP Practice Test Sets:</u> • N/A <u>LEAP Assessment Guide Sets:</u> • Task Set: Laws of Motion and Bicycle Helmets (6-MS-PS2-1, 6-MS-PS2-2) <u>LEAP Science Released Items:</u> • N/A

Unit	Discrete Items	Sets
Sound Waves OpenSciEd 8.2	<u>LDOE Formative Assessment Items</u> (Password- Educate2020): - Trials, Reverberation (6-MS-PS4-1) <u>LEAP Practice Test Standalone Items:</u> 41 (6-MS-PS4-1) <u>LEAP Assessment Guide Items:</u> - Sound Waves (6-MS-PS4-1) <u>LEAP Science Released Items:</u> - N/A	<u>LDOE Formative Assessment Sets</u> (Password- Educate2020): - Item Set: Ocean Waves (6-MS-PS4-1) <u>LEAP Practice Test Sets:</u> - Item Set: Properties of Light and Sound Waves (6-MS-PS4-1, 6-MS-PS4-2) <u>LEAP Assessment Guide Sets:</u> - N/A <u>LEAP Science Released Items:</u> - N/A
Forces at a Distance OpenSciEd 8.3	<u>LDOE Formative Assessment Items</u> (Password- Educate2020): - Electric Motor (6-MS-PS2-3) - Popcorn (6-MS-PS2-5) <u>LEAP Practice Test Standalone Items:</u> 37 (6-MS-PS2-5) 35 (6-MS-PS3-2) <u>LEAP Assessment Guide Items:</u> - Electric and Magnetic Forces (6-MS-PS2-3) <u>LEAP Science Released Items:</u> - Compass Needle (6-MS-PS2-3)	<u>LDOE Formative Assessment Sets</u> (Password- Educate2020): - N/A <u>LEAP Practice Test Sets:</u> - Item Set: Changes in the Earth's Magnetic Field (6-MS-PS2-3, 6-MS-PS2-5) - Task Set: Marbles (6-MS-PS3-1, 6-MS-PS3-2) <u>LEAP Assessment Guide Sets:</u> - N/A <u>LEAP Science Released Items:</u> - N/A
	<u>LDOE Formative Assessment Items</u> (Password- Educate2020): Moons, Midnight_Sun (6-MS-ESS1-1)	<u>LDOE Formative Assessment Sets</u> (Password- Educate2020): N/A

Unit	Discrete Items	Sets
Earth in Space OpenSciEd 8.4	- Spitzer (6-MS-ESS1-2) - Dwarf Planets (6-MS-ESS1-3) - Gr6 Moons (6-MS-PS2-4) <u>LEAP Practice Test Standalone Items:</u> 23 and 32 (6-MS-ESS1-1) 38 (6-MS-ESS1-2) 39 (6-MS-PS2-4) <u>LEAP Assessment Guide Items:</u> - Gravitational Force (6-MS-PS2-4) <u>LEAP Science Released Items:</u> - Eclipses (6-MS-ESS1-1)	<u>LEAP Practice Test Sets:</u> - Item Set: Asteroids in the Solar System (6-MS-ESS1-2, 6-MS-ESS1-3) <u>LEAP Assessment Guide Sets:</u> - Item Set: Eclipses (6-MS-ESS1-1, 6-MS-ESS1-2) <u>LEAP Science Released Items:</u> - Item Set: Solar System Properties (6-MS-ESS1-3)
Cells and Systems OpenSciEd 6.6	<u>LDOE Formative Assessment Items (Password- Educate2020):</u> - Gr6 Minerals (6-MS-LS1-1) - Slugs and Chloroplasts, Plant Cells (6-MS-LS1-2) <u>LEAP Practice Test Standalone Items:</u> 34 (6-MS-LS1-1) 21 (6-MS-LS1-2) <u>LEAP Assessment Guide Items:</u> - N/A <u>LEAP Science Released Items:</u> - N/A	<u>LDOE Formative Assessment Sets (Password- Educate2020):</u> - N/A <u>LEAP Practice Test Sets:</u> - Item Set: Organelles (6-MS-LS1-1, 6-MS-LS1-2) <u>LEAP Assessment Guide Sets:</u> - N/A <u>LEAP Science Released Items:</u> - N/A

Unit	Discrete Items	Sets
Disruptions in Ecosystems	<u>LDOE Formative Assessment Items</u> (Password- Educate2020): - Gr6 Red Snapper (6-MS-ESS3-4) - Cherry Tree, Wolves, and Moose (6-MS-LS2-2) - Microplastics (6-MS-LS2-3) <u>LEAP Practice Test Standalone Items:</u> 13 (6-MS-LS2-3) 22 (6-MS-ESS3-4) 36 (6-MS-LS2-3) <u>LEAP Assessment Guide Items:</u> - Lichens (6-MS-LS2-2) - Florida Everglades (6-MS-LS2-1) <u>LEAP Science Released Items:</u> - Interactions (6-MS-LS2-3)	<u>LDOE Formative Assessment Sets</u> (Password- Educate2020): - Item Set: Deer (6-MS-LS2-1) <u>LEAP Practice Test Sets:</u> - Item Set: Anasazi and the Great Drought (6-MS-LS2-1 and 6-MS-LS2-2) <u>LEAP Assessment Guide Sets:</u> - N/A <u>LEAP Science Released Items:</u> - Task Set: Aldabra Tortoises (6-MS-LS2-1 and 6-MS-LS2-2)
Other standards	<u>LDOE Formative Assessment Items</u> (Password- Educate2020): - Models (6-MS-PS1-1) <u>LEAP Practice Test Standalone Items:</u> 15, 34 (6-MS-PS1-1) <u>LEAP Assessment Guide Items:</u> - N/A <u>LEAP Science Released Items:</u> - N/A	<u>LDOE Formative Assessment Sets</u> (Password- Educate2020): - N/A <u>LEAP Practice Test Sets:</u> - N/A <u>LEAP Assessment Guide Sets:</u> - N/A <u>LEAP Science Released Items:</u> - N/A