



Teaching and Learning

Louisiana Guide to Piloting OpenSciEd: Grade 4

To assist teachers with the pilot version of the OpenSciEd curriculum for grade 4, this document provides guidance regarding how OpenSciEd units correlate with the [Louisiana Student Standards for Science](#) (LSSS). The OpenSciEd curriculum provides ample instructional guidance for teachers. This Louisiana Guide for Piloting OpenSciEd goes a step further to point out places in which teachers may need to make strategic decisions considering student needs. This guide will be updated as OpenSciEd K-5 units are [released](#).

This guidance document is considered a “living” document as we believe that teachers and other educators will find ways to improve the document as they use it. Please send feedback to STEM@la.gov so that we may use your input when updating this guide.

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Standards by Unit

	4.1 Energy Transfer: Collisions	4.2 Energy Transfer: Electricity	4.3 Earth Processes	4.4 Structure and Function
Number of Lessons	14 Lessons	15 Lessons	<i>Pending Release</i>	<i>Pending Release</i>
Anchor Phenomenon Question	Why does an object's motion change?	How do we power computers and other electrical devices?	What causes Earth's landscape to change and how do the changes impact humans?	How do the structure and function of traits of living things benefit them?
Standards	4-PS3-1 4-PS3-3	4-PS3-2 4-PS3-4 4-PS4-3 4-ESS3-1 3-5-ETS1-1 3-5-ETS1-3	4-PS4-1 4-ESS1-1 4-ESS2-1 4-ESS2-2 4-ESS3-2 3-5-ETS1-2	4-LS1-1 4-LS1-2 4-PS4-2
Unit Resources	Unit Materials	Unit Materials	<i>Available Summer 2025</i>	<i>Available Winter 2026</i>

Standard 4-ESS2-3 is partially addressed throughout the Grade 4 modules.

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 Louisiana Student Standards for Science. These resources can be used alongside guidance from a high-quality curriculum to provide opportunities for students to showcase their learning.

Unit	Discrete Items	Item Sets
4.1 Energy Transfer: Collisions	<u>LDOE Formative Assessment Items</u> (Password - Educate2020): - Hockey Puck (4-PS3-1) - Marbles (4-PS3-3) <u>LEAP Practice Test Standalone Items:</u> 39 (4-PS3-1) <u>LEAP Assessment Guide Items:</u> - Softball (4-PS3-3)	<u>LDOE Formative Assessment Sets</u> (Password - Educate2020): - N/A <u>LEAP Practice Test Standalone Sets:</u> - Marble Experiment (4-PS3-1 and 4-PS3-3) <u>LEAP Assessment Guide Sets:</u> - N/A
4.2 Energy Transfer: Electricity	<u>LDOE Formative Assessment Items</u> (Password - Educate2020): - Pool Temperature (4-PS3-2) - Boat Design (4-PS3-4) - Wind Power 136574 (4-ESS3-1) <u>LEAP Practice Test Standalone Items:</u> 22-23 (4-PS3-4) 38 (4-ESS3-1) <u>LEAP Assessment Guide Items:</u> - Blender (4-PS3-2)	<u>LDOE Formative Assessment Sets</u> (Password - Educate2020): - N/A <u>LEAP Practice Test Standalone Sets:</u> - Heating with Solar Energy (4-PS3-4 and 4-ESS3-1) - Striking Flint (4-PS3-3 and 4-PS3-2)** <u>LEAP Assessment Guide Sets:</u> - N/A

Unit	Discrete Items	Item Sets
4.3 Earth Processes	<u>LDOE Formative Assessment Items</u> (Password - Educate2020): • Puddles (4-PS4-1) • LA Coast, Grand Canyon, Dam (4-ESS2-1) • Ashfall (4-ESS3-2) <u>LEAP Practice Test Standalone Items:</u> • 35 & 36 (4-PS4-1) • 32 & 41 (4-ESS1-1) • 33 (4-ESS2-1) • 15 & 34 (4-ESS2-2) • 14 (4-ESS3-2) <u>LEAP Assessment Guide Items:</u> • Erosion Experiment (4-ESS2-1)	<u>LDOE Formative Assessment Sets</u> (Password - Educate2020): • Sierra Nevada (4-ESS1-1 and 4-ESS2-2) <u>LEAP Practice Test Standalone Sets:</u> • Hawaiian Volcanoes (4-ESS2-2 and 4-ESS3-2) <u>LEAP Assessment Guide Sets:</u> • Task Set: The Ages of Louisiana Soil and Fossils (4-ESS1-1, 4-ESS2-1)
4.4 Structure and Function	<u>LDOE Formative Assessment Items</u> (Password - Educate2020): • Green Pitcher (4-LS1-1) • Spiders (4-LS1-2) • Cave (4-PS4-2) <u>LEAP Practice Test Standalone Items:</u> • 40 (4-PS4-2) <u>LEAP Assessment Guide Items:</u> • Armadillos (4-LS1-2)	<u>LDOE Formative Assessment Sets</u> (Password - Educate2020): • Cuttlefish (4-LS1-1 and 4-LS1-2) <u>LEAP Practice Test Standalone Sets:</u> • Predator and Prey (4-LS1-2 and 4-PS4-2) <u>LEAP Assessment Guide Sets:</u> • Item Set: How Bears See (4-LS1-2 and 4-PS4-2)

Unit	Discrete Items	Item Sets
Louisiana-only standard 4-ESS2-3	<u>LDOE Formative Assessment Items</u> (Password - Educate2020): - Termite (4-ESS2-3) <u>LEAP Practice Test Standalone Items:</u> 37 <u>LEAP Assessment Guide Items:</u> - N/A	<u>LDOE Formative Assessment Sets</u> (Password - Educate2020): - N/A <u>LEAP Practice Test Standalone Sets:</u> - Beavers (4-ESS2-3 and 4-LS1-1)** <u>LEAP Assessment Guide Sets:</u> - N/A

**Contains performance expectation(s) from a previous unit.