

Louisiana Guide to Piloting OpenSciEd: Grade 4

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Purpose

To assist teachers with the pilot version of the OpenSciEd curriculum for Grade 4, this document provides guidance for how OpenSciEd units correlate with the [Louisiana Student Standards for Science](#) (LSSS). The OpenSciEd curriculum provides ample instructional guidance for teachers. This Louisiana Guide to Piloting OpenSciEd takes it a step further by highlighting areas where teachers may need to make strategic decisions that consider student needs.

The OpenSciEd Grade 4 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 your feedback to STEM@la.gov so that the Louisiana Department of Education (LDOE) can incorporate your suggestions when updating this guide.

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	16 Lessons	13 Lessons
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	4-PS4-1 4-ESS1-1 4-ESS2-1 4-ESS2-2 4-ESS3-2	4-LS1-1 4-LS1-2 4-PS4-2
Unit Resources	Unit Materials	Unit Materials	Unit Materials	Unit Materials

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

LDOE Formative Assessment Resources

The 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
<p>Unit 4.1</p> <p>Energy Transfer: Collisions</p>	<p><u>LDOE Formative Assessment Items</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Hockey Puck (4-PS3-1) Marbles (4-PS3-3) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 39 (4-PS3-1) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Softball (4-PS3-3) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> N/A 	<p><u>LDOE Formative Assessment Sets</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Standalone Sets:</u></p> <ul style="list-style-type: none"> Item Set: Marble Experiment (4-PS3-1 and 4-PS3-3) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> N/A
<p>Unit 4.2</p> <p>Energy Transfer: Electricity</p>	<p><u>LDOE Formative Assessment Items</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Pool Temperature (4-PS3-2) Boat Design (4-PS3-4) Wind Power 136574 (4-ESS3-1) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 22-23 (4-PS3-4) 38 (4-ESS3-1) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Blender (4-PS3-2) <p><u>LEAP Science Released Items:</u></p>	<p><u>LDOE Formative Assessment Sets</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Standalone Sets:</u></p> <ul style="list-style-type: none"> Item Set: Heating with Solar Energy (4-PS3-4 and 4-ESS3-1) Item Set: Striking Flint (4-PS3-3 and 4-PS3-2)** <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> N/A

Unit	Discrete Items	Item Sets
	<ul style="list-style-type: none"> Solar Panels (4-PS3-4) 	
<p>Unit 4.3</p> <p>Earth Processes</p>	<p><u>LDOE Formative Assessment Items</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Puddles (4-PS4-1) LA Coast, Grand Canyon, Dam (4-ESS2-1) Ashfall (4-ESS3-2) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 35 & 36 (4-PS4-1) 32 & 41 (4-ESS1-1) 33 (4-ESS2-1) 15 & 34 (4-ESS2-2) 14 (4-ESS3-2) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Erosion Experiment (4-ESS2-1) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> Rock Layers (4-ESS1-1) House on Sliders (4-ESS2-2) 	<p><u>LDOE Formative Assessment Sets</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Item Set: Sierra Nevada (4-ESS1-1 and 4-ESS2-2) <p><u>LEAP Practice Test Standalone Sets:</u></p> <ul style="list-style-type: none"> Item Set: Hawaiian Volcanoes (4-ESS2-2 and 4-ESS3-2) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> Task Set: The Ages of Louisiana Soil and Fossils (4-ESS1-1 and 4-ESS2-1) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> Items Set: Bryce Canyon (4-ESS1-1 and 4-ESS2-1)
<p>Unit 4.4</p> <p>Structure and Function</p>	<p><u>LDOE Formative Assessment Items</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Green Pitcher (4-LS1-1) Spiders (4-LS1-2) Cave (4-PS4-2) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 40 (4-PS4-2) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Armadillos (4-LS1-2) <p><u>LEAP Science Released Items:</u></p>	<p><u>LDOE Formative Assessment Sets</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Item Set: Cuttlefish (4-LS1-1 and 4-LS1-2) <p><u>LEAP Practice Test Standalone Sets:</u></p> <ul style="list-style-type: none"> Item Set: Predator and Prey (4-LS1-2 and 4-PS4-2) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> Item Set: How Bears See (4-LS1-2 and 4-PS4-2) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> N/A

Unit	Discrete Items	Item Sets
	<ul style="list-style-type: none"> N/A 	
<p>Louisiana only standard</p> <p>4-ESS2-3</p>	<p><u>LDOE Formative Assessment Items</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> Termite (4-ESS2-3) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 37 <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> N/A 	<p><u>LDOE Formative Assessment Sets</u> (Password - Educate2020):</p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Standalone Sets:</u></p> <ul style="list-style-type: none"> Task Set: Beavers (4-ESS2-3 and 4-LS1-1)** <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> Item Set: Water Hyacinths (4-LS1-1 and 4-ESS2-3)

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