



Teaching and Learning

Louisiana Guide to Piloting OpenSciEd: Grade 5

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Purpose

To assist teachers with the pilot version of the OpenSciEd curriculum for grade 5, 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 to 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](#).

The OpenSciEd Grade 5 units are intentionally designed to provide students the opportunity to incrementally make sense of phenomena to build understanding and abilities over time through a coherent storyline. Modification to the sequence or content of lessons within these units could undermine the design and, therefore, should 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 LDOE may incorporate your suggestions when updating this guide.

Standards by Unit

	5.1 Ecosystems and Matter Cycling	5.2 Matter Properties	5.3 Earth Systems	5.4 Earth in the Universe
Number of Lessons	14 Lessons	15 Lessons	<i>Pending Release</i>	<i>Pending Release</i>
Anchor Phenomenon Question	How does a nurse log help other things live and grow?	How can we make water healthy for all living things?	How does changing the flow of water impact Earth's systems and how can humans help?	How and why does what I see in the sky change?
Standards	5-PS1-1 5-PS3-1 5-LS1-1 5-LS2-1	5-PS1-2 5-PS1-3 5-PS1-4	5-ESS2-1 5-ESS2-2 5-ESS3-1	5-ESS1-1 5-ESS1-2 5-PS2-1
Unit Resources	Unit Materials	Unit Materials	Available Winter 2025	Unit Materials

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 and Practice Test Items
5.1 Ecosystems and Matter Cycling	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none">• Pond, Arctic Ground Squirrels (5-PS3-1)• Plant Project, Atchafalaya Basin (5-LS1-1)• African Ecosystem, Water Hyacinths, Walter's Food Web (5-LS2-1) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none">• 23 & 38 (5-PS3-1)• 13 & 33 (5-LS1-1)• 15 (5-LS2-1) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none">• Forest Ecosystem (5-PS3-1) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none">• N/A	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none">• Item Set: Australian Ecosystem (5-LS1-1 and 5-PS3-1) <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none">• Item Set: Rafflesia (5-LS1-1 and 5-LS2-1) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none">• Item Set: Cordgrass Ecosystem (5-LS1-1 and 5-LS2-1) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none">• N/A
5.2 Matter Properties	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none">• Gas Particles (5-PS1-1)• Coolers, Burning Wood, Mixing Substances (5-PS1-2)• Water Quality (5-PS1-3)• Hoey (5-PS1-4) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none">• 35 (5-PS1-1)• 22 & 32 (5-PS1-2)• 41 (5-PS1-3)• 14 (5-PS1-4)	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none">• Item Set: Diamond Mining (5-PS1-3 and 5-PS1-4) <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none">• Item Set: Mineral Identification (5-PS1-3 and 5-PS1-1)• Item Set: Mixing Liquids (5-PS1-2 and 5-PS1-4) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none">• N/A

Unit	Discrete Items	Item Sets and Practice Test Items
5.2 continued	<p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> • Milk Investigation (5-PS1-4) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> • Mass Experiments (5-PS1-2) 	<p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> • Item Set: Saltwater Reactions (5-PS1-3 and 5-PS1-4) • Task Set: Melting Fruit Pops (5-PS1-1 and 5-PS1-2)**
5.3 Earth's Systems	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none"> • Precipitation, Briksdal (5-ESS2-1) • Water Distribution (5-ESS2-2) • Air Pollution, Dust Storms (5-ESS3-1) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> • 34 & 39 (5-ESS2-2) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> • Water on Earth (5-ESS2-2) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> • Wave Tank (5-ESS2-1) • Oil Spill (5-ESS3-1) 	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none"> • N/A <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> • Item Set: Louisiana Black Bears (5-ESS3-1) • Item Set: Controlling Runoff (5-ESS2-1 and 5-ESS3-1) <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"> • N/A
5.4 Earth in the Universe	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none"> • Gravity (5-PS2-1) • Skies (5-ESS1-1) • Two Stars (5-ESS1-1) • Constellations, Moon Cycle (5-ESS1-2) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> • 40 (5-PS2-1) • 37 (5-ESS1-1) • 21 & 36 (5-ESS1-2) 	<p><u>LDOE Formative Assessment Items (Password - Educate2020):</u></p> <ul style="list-style-type: none"> • Item Set: Biomes (5-ESS3-1 and 5-LS1-1)** <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> • Task Set: Brightness and Shadows (5-ESS1-1 and 5-ESS1-2) <p><u>LEAP Assessment Guide Sets:</u></p> <ul style="list-style-type: none"> • Task Set: Landslides (5-PS2-1 and 5-ESS2-1)**

Unit	Discrete Items	Item Sets and Practice Test Items
	<p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> • Sky Patterns (5-ESS1-2) <p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> • Distance from Earth (5-ESS1-1) • Diving Board (5-PS2-1) 	<p><u>LEAP Science Released Items:</u></p> <ul style="list-style-type: none"> • N/A

**Contains performance expectations from a previous unit