



Teaching and Learning

Louisiana Guide to Piloting OpenSciEd: Grades K-2

To assist teachers with the pilot version of the OpenSciEd curriculum for Kindergarten through grade 2, 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 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 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 LDOE may incorporate your suggestions when updating this guide.

Updated August 27, 2025

Table of Contents

<u>Grade K Standards by Unit</u>	3
<u>Grade 1 Standards by Unit</u>	4
<u>Grade 2 Standards by Unit</u>	5

Kindergarten Standards by Unit

	K.1 Energy: Sunlight	K.2 Weather	K.3 Force & Motion	K.4 Ecosystems
Number of Lessons	10 Lessons	10 Lessons	10 Lessons	<i>Pending Release</i>
Anchor Phenomenon Question	Why do some surfaces get hot and how can we make them less hot?	How can we be prepared for the weather?	How can we move things to where we want them to go?	What do plants and animals need and should we help them?
Standards	K-PS3-1 K-PS3-2 K-2-ETS1-1 K-2-ETS1-2	K-ESS2-1 K-ESS3-2	K-PS2-1 K-PS2-2 K-2ETS1-1 K-2-ETS1-2 K-2ETS1-3	K-LS1-1 K-ESS2-2 K-ESS3-1 K-ESS3-3
Unit Resources	Unit Materials	Unit Materials	Unit Materials	<i>Available Winter 2025</i>

Grade 1 Standards by Unit

	1.1 Waves: Light	1.2 Waves: Sound	1.3 Sky Patterns	1.4 Animal & Plant Traits
Number of Lessons	10 Lessons	10 Lessons	10 Lessons	<i>Pending Release</i>
Anchor Phenomenon Question	How can we read under the covers when it is dark?	How do objects make and use sound to communicate?	How do patterns of the Sun, Moon, and stars affect what we see in the sky?	How do animals and plants use their parts to survive?
Standards	1-PS4-2 1-PS4-3	1-PS4-1 1-PS4-4 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	1-ESS1-1 1-ESS1-2	1-LS1-1 1-LS1-2 1-LS3-1 K-2-ETS1-1 K-2-ETS1-2
Unit Resources	Unit Materials	Unit Materials	Unit Materials	<i>Available Winter 2025</i>

Grade 2 Standards by Unit

	2.1 Earth: Land Erosion	1.2 Structure and Properties of Materials	1.3 Habitats and Biodiversity	Unit 4 Plants
Number of Lessons	10 Lessons	10 Lessons	10 Lessons	<i>Pending Release</i>
Anchor Phenomenon Question	Why does land change shape and how can we prevent land from changing?	How can we design a new toy?	What plants and animals live in different lands, waters, and other places?	How is that growing there?
Standards	2-ESS1-1 2-ESS2-1 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4 K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3	2-LS4-1 2-ESS2-2 2-ESS2-3	2-LS2-1 2-LS2-2
Unit Resources	Unit Materials	Unit Materials	Unit Materials	<i>Available Winter 2025</i>