Louisiana Believes

Louisiana Guide to Implementing Amplify: Grade 5

To assist teachers with the implementation of the fifth grade Amplify curriculum, this document provides guidance regarding how Amplify units correlate with the Louisiana Student Standards for Science (LSSS). The Amplify curriculum provides ample instructional guidance for teachers. This Louisiana Guide for Implementing Amplify goes a step further to point out places in which teachers may need to make strategic decisions considering student needs.

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.

Updated December 9, 2022

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Standards by Unit[1]

	Unit 1 Patterns of Earth & Sky	Unit 2 Modeling Matter	Unit 3 The Earth System	Unit 4 Ecosystem Restoration
Number of Lessons	22 lessons	22 lessons	26 lessons	22 lessons
Anchor Phenomenon Question	Archaeologists discovered part of an ancient artifact that depicts the sun and other stars. How can we figure out what would have appeared on the missing piece?	What happens when two substances are mixed together?	What can determine how much water is available for human use?	Why are the jaguars and sloths in a reforested part of the Costa Rican rainforest ecosystem growing and thriving?
Books in the Unit	*How Big Is Big? How Far Is Far?* *Which Way Is Up?* *Dog Days of Summer* *Star Scientist* *Handbook of Stars and Constellations*	*Made of Matter* *Break It Down* *Solving Dissolving* *Science You Can't See* *Food Scientist's Handbook*	*Water Shortages, Water Solutions* *Drinking Cleopatra's Tears* *Engineering Clean Water* *How the Earth System Explains Dinosaur Extinction* *Chemical Reactions Everywhere* *Water Encyclopedia*	*Matter Makes It All Up* *Energy Makes It All Go* *Why Do Scientists Argue?* *Walk in the Woods* *Restoration Case Studies*
Standards	5-ESS1-1 5-ESS1-2 5-PS2-1	5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4*	5-ESS2-1 5-ESS2-2 5-ESS3-1 5-PS1-1 5-PS1-2 5-PS1-3* 5-PS1-4 5-LS2-1*	5-LS1-1 5-LS2-1 5-PS1-1 5-PS1-4* 5-PS3-1 5-ESS3-1

** The performance expectation is only partially addressed using the identified phenomenon. The performance expectation is addressed in other unit(s).*

[1] *Adapted from guidance developed by PhD Science*

Investigative Phenomena by Unit[1]

Units	Investigative Phenomena Questions
Unit 1 Patterns of Earth & Sky	Chapter 1: Why don't we see a lot of stars in the daytime? Chapter 2: Why is the sun up sometimes, but not other times? Chapter 3: Why do we see different stars at different times of year? Chapter 4: How can we investigate why we see different stars on different nights?
Unit 2 Modeling Matter	Chapter 1: Why did the food coloring separate into different dyes? Chapter 2: Why do some salad dressings have sediments, and others do not? Chapter 3: Why can salad-dressing ingredients separate again after being mixed?
Unit 3 The Earth System	Chapter 1: Why is East Ferris running out of water while West Ferris is not? Chapter 2: Why does rain form over West Ferris than East Ferris? Chapter 3: Why is more water vapor getting cold over West Ferris than East Ferris? Chapter 4: Why is there more water vapor high up over West Ferris than East Ferris? Chapter 5: How can East Ferris turn wastewater into clean freshwater?
Unit 4 Ecosystem Restoration	Chapter 1: Why aren't the jaguars and sloths growing and thriving? Chapter 2: Why aren't the cecropia trees growing and thriving? Chapter 3: Why aren't the cecropia trees growing and thriving in the soil?

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LDOE Formative Assessment Resources

Created by Louisiana educators to support formative assessment in the classroom, the Department has released a library of discrete items and item sets correlated to the Louisiana Student Standards for Science. These items, along with LEAP 2025 Practice Test Items, may be used in conjunction with guidance from high-quality curriculum as opportunities for students to demonstrate what they have learned. LDOE Formative Assessment Resources can be found on the K-12 Science Planning webpage.

Unit	Discrete Items	Item Sets and Practice Test Items
Unit 1 Patterns of Earth & Sky	Gravity (5-PS2-1) Skies (5-ESS1-1) Two Stars (5-ESS1-1) Constellations (5-ESS1-2) Moon Cycle (5-ESS1-2)	Practice Test Item Set Brightness and Shadows (5-ESS1-1 and 5-ESS1-2)
Unit 2 Modeling Matter	SoccerBalls (5-PS1-1) Gas Particles (5-PS1-1) Coolers (5-PS1-2) Burning Wood (5-PS1-2) Mixing Substances (5-PS1-2) Water Quality (5-PS1-3)	Practice Test Item Set Mineral Identification (5-PS1-3 and 5-PS1-1) Practice Test Item Set Mixing Liquids (5-PS1-2 and 5-PS1-4) Diamond Mining (5-PS1-3 and 5-PS1-4)
Unit 3 The Earth System	Precipitation (5-ESS2-1) Water Distribution (5-ESS2-2) Air Pollution (5-ESS-3-1) Dust Storms (5-ESS-3-1)	Practice Test Louisiana Black Bears (5-ESS3-1) Controlling Runoff (5-ESS2-1 and 5-ESS3-1)
Unit 4 Ecosystem Restoration	Plant Project (5-LS1-1) Atchafalaya Basin (5-LS1-1) Water Hyacinths (5-LS2-1) African Ecosystems (5-LS2-1) Walter's Food Web (5-LS2-1) Pond (5-PS3-1)	Practice Test Item Rafflesia (5-LS1-1 and 5-LS2-1) Australia (5-LS2-1* and 5-PS3-1) Biomes (5-ESS3-1 and 5-LS1-1)

**Performance expectation partially assessed*