

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 and time availability.

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 classroomsupporttoolbox@la.gov so that we may use your input when updating this guide.

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Standards by Unit¹

	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 rain forest ecosystem growing and thriving?
Books in the Unit	<i>How Big Is Big? How Far Is Far?</i> <i>Which Way Is Up?</i> <i>Dog Days of Summer</i> <i>Star Scientist</i> <i>Handbook of Stars and Constellations</i>	<i>Made of Matter</i> <i>Break It Down</i> <i>Solving Dissolving</i> <i>Science You Can't See</i> <i>Food Scientist's Handbook</i>	<i>Water Shortages, Water Solutions</i> <i>Drinking Cleopatra's Tears</i> <i>Engineering Clean Water</i> <i>How the Earth System Explains</i> <i>Dinosaur Extinction</i> <i>Chemical Reactions Everywhere</i> <i>Water Encyclopedia</i>	<i>Matter Makes It All Up</i> <i>Energy Makes It All Go</i> <i>Why Do Scientists Argue?</i> <i>Walk in the Woods</i> <i>Restoration Case Studies</i>
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 Unit¹

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 sometime, 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 other 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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Alignment to EAGLE 2.0

The EAGLE 2.0 online tool supports formative assessment in the classroom and can be used in conjunction with Amplify Science assessment guidance to enhance teaching and learning. [A Teacher’s Guide to LEAP 360](#) provides an overview of the online tool and information on how to access the science EAGLE assessment items. The assessment items can be used immediately following a unit of study to help measure student progress.

Unit	Eagle Discrete Items	EAGLE 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) Hoey (5-PS1-4)	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	Briksdal (5-ESS2-1) 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)

Amplify Materials and Professional Development

Professional Development Services

Amplify professional development sessions are designed for teachers, teacher leaders, instructional coaches, curriculum specialists, and administrators. For information about PhD Science professional development services, review the [PD Vendor Guide](#).

Purchasing Information

Amplify Education offers Amplify Science as a [Tier 1](#) science program for grades 3-5. Print materials and kits are available for purchase. The [Amplify Price List](#) provides an overview of the materials and kits available through the Department's [Instructional Materials Contract Pricing](#).