

Louisiana Believes

Louisiana Guide to Implementing PhD Science: Grade 5

To assist teachers with the implementation of the fifth Grade PhD Science curriculum, this document provides guidance regarding how PhD Science units correlate with the Louisiana Student Standards for Science (LSSS). The PhD Science curriculum provides ample instructional guidance for teachers. This Louisiana Guide for Implementing PhD Science 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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Table of Contents

Standards by Module	3
Alignment to EAGLE 2.0	4
PhD Science Materials and Professional Development	5

Standards by Module ¹

	Module 1 Matter	Module 2 Ecosystems	Module 3 Earth Systems	Module 4 Orbit and Rotation
Approximate Timeframe	26 days	26 days	27 days	26 days
Anchor Phenomenon	Changes to the Statue of Liberty's Appearance	Life Around a Mangrove Tree	Balinese Rice Farming	Views From Earth and Space
Essential Question	What caused the Statue of Liberty to change over time?	How can trees support so much life?	How has Balinese rice farming endured for 1,000 years?	How can we explain our observations of the Sun, Moon, and stars from Earth?
Instructional Texts	<i>Statue of Liberty: A Tale of Two Countries</i>	<i>The Mangrove Tree Living Sunlight</i>	<i>Cycle of Rice, Cycle of Life</i> <i>The Buffalo are Back</i>	<i>Look to the Stars</i> <i>Look Up! Henrietta Leavitt</i> <i>Pioneering Woman Astronomer</i>
Standards	5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4	5-LS1-1 5-LS2-1 5-PS3-1	5-ESS2-1 5-ESS2-2 5-ESS3-1	5-ESS1-1 5-ESS1-2 5-PS2-1

¹ Adapted from guidance developed by PhD Science

Alignment to EAGLE 2.0

The EAGLE 2.0 online tool supports formative assessment in the classroom and can be used in conjunction with PhD 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 below can be used immediately following a unit of study to help measure student progress.

Module	Eagle Discrete Items	EAGLE Item Sets and Practice Test Items
Module 1 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)
Module 2 Ecosystems	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)
Module 3 Earth Systems	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)
Module 4 Orbit and Rotation	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)

PhD Science Materials and Professional Development

Professional Development Services

PhD Science 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

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