



Teaching and Learning

# Louisiana Guide to Implementing Amplify:

## Grade 3

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To assist teachers with the implementation of the Amplify curriculum for grade 3, this document provides guidance for how Amplify units correlate with the [Louisiana Student Standards for Science](#) (LSSS). The Amplify curriculum provides ample instructional guidance for teachers. This Louisiana Guide to Implementing Amplify goes a step further to point out places in which teachers may need to make strategic decisions, considering student needs.

The Amplify Science Grade 3 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](mailto:STEM@la.gov) so that the LDOE may incorporate your suggestions when updating this guide.

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Standards by Unit<sup>1</sup>

	Unit 1 Balancing Forces	Unit 2 Inheritance of Traits	Unit 3 Environments & Survival	Unit 4 Weather and Climate
Number of Lessons	22 lessons	22 lessons	22 lessons	22 lessons
Anchor Phenomenon Question	How is it possible for a train to float?	What is the origin of the traits of Wolf 44 — a wolf that appears to be different from the rest of its pack?	How can learning about how grove snails survive help engineers design effective solutions to problems?	Which island would be the best location for an orangutan reserve? How can you protect buildings from damage by weather-related natural hazards?
Standards	3-PS2-1 3-PS2-2 3-PS2-3 3-PS2-4	3-LS1-1 3-LS2-1 3-LS3-1 3-LS3-2	3-LS4-1 3-LS4-2 3-LS4-3 3-LS4-4	3-ESS2-1 3-ESS2-2 3-ESS3-1 3-LS4-3*

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

<sup>1</sup> Adapted from guidance developed by Amplify Science

## Investigative Phenomena by Unit<sup>1</sup>

Unit	Investigative Phenomena Question
Unit 1 Balancing Forces	Chapter 1: Why does the train rise? Chapter 2: Why does the train rise without anything touching it? Chapter 3: Why does the train fall? Chapter 4: Why does the train float? Chapter 5: Why does the train change from floating to falling?
Unit 2 Inheritance of Traits	Chapter 1: Why are wolves different from each other even though they are all the same species? Chapter 2: Why is Wolf 44's color similar to one pack but different from the other? Chapter 3: Why isn't Wolf 44 like the Bison Valley Pack in hunting style and size? Chapter 4: How can scientists investigate questions about traits?
Unit 3 Environments & Survival	Chapter 1: Why are the snails with yellow shells not surviving well? Chapter 2: Why are the snails with banded shells more likely to survive than the snails with yellow shells? Chapter 3: Why were snails with yellow shells more likely to survive in their environment 10 years ago? Chapter 4: How can engineers use what they learn from organisms' traits to design solutions?
Unit 4 Weather & Climate	Chapter 1: Which island's weather would be best for orangutans? Chapter 2: Which island's weather will continue to be best for orangutans? Chapter 3: Over many years, which island's weather will be best for orangutans? Chapter 4: How can the Wildlife Protection Organization (WPO) prepare for natural hazards that might damage their offices?

<sup>1</sup> Adapted from guidance developed by Amplify Science

## 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	Sets
<b>Unit 1</b>  <b>Balancing Forces</b>	<p><b><u><a href="#">LDOE Formative Assessment Items</a></u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>• Cradle, Volleyball, Skateboard (3-PS2-1)</li> <li>• Ball Type (3-PS2-2)</li> </ul> <p><b><u><a href="#">LEAP Practice Test Standalone Items:</a></u></b></p> <ul style="list-style-type: none"> <li>• 35 (3-PS2-1)</li> <li>• 36 (3-PS2-2)</li> <li>• 31 &amp; 32 (3-PS2-3)</li> <li>• 15 &amp; 39 (3-PS2-4)</li> </ul> <p><b><u><a href="#">LEAP Assessment Guide Items:</a></u></b></p> <ul style="list-style-type: none"> <li>• Toy Truck Investigation (3-PS2-1)</li> </ul> <p><b><u><a href="#">LEAP Science Released Items:</a></u></b></p> <ul style="list-style-type: none"> <li>• Magnets (3-PS2-4)</li> </ul>	<p><b><u><a href="#">LDOE Formative Assessment Sets</a></u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>• Bowling (3-PS2-1 and 3-PS2-2)</li> <li>• Oil Spill (3-PS2-2 and 3-PS2-3)</li> </ul> <p><b><u><a href="#">LEAP Practice Test Sets:</a></u></b></p> <ul style="list-style-type: none"> <li>• Seesaws (3-PS2-1 and 3-PS2-2)</li> </ul> <p><b><u><a href="#">LEAP Assessment Guide Sets:</a></u></b></p> <ul style="list-style-type: none"> <li>• N/A</li> </ul> <p><b><u><a href="#">LEAP Science Released Items:</a></u></b></p> <ul style="list-style-type: none"> <li>• Item Set: Forces and Cabinet Doors (3-PS2-1 and 3-PS2-4)</li> </ul>
<b>Unit 2</b>  <b>Inheritance of Traits</b>	<p><b><u><a href="#">LDOE Formative Assessment Items</a></u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>• Black Bears, Butterfly Cycle (3-LS1-1)</li> <li>• Lions &amp; Tigers, Penguins (3-LS2-1)</li> </ul> <p><b><u><a href="#">LEAP Practice Test Standalone Items:</a></u></b></p> <ul style="list-style-type: none"> <li>• 38 (3-LS2-1)</li> <li>• 10 (3-LS3-1)</li> </ul>	<p><b><u><a href="#">LDOE Formative Assessment Sets</a></u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>• Pythons (3-LS3-1 and 3-LS3-2)</li> </ul> <p><b><u><a href="#">LEAP Practice Test Sets:</a></u></b></p> <ul style="list-style-type: none"> <li>• Amazon River Dolphins (3-LS2-1 and 3-LS1-1)</li> </ul> <p><b><u><a href="#">LEAP Assessment Guide Sets:</a></u></b></p>

Unit	Discrete Items	Sets
Unit 2 <i>continued</i>	<ul style="list-style-type: none"> <li>11 (3-LS3-2)</li> </ul> <p><b><u>LEAP Assessment Guide Items:</u></b></p> <ul style="list-style-type: none"> <li>Spoonbills (3-LS3-2)</li> </ul> <p><b><u>LEAP Science Released Items:</u></b></p> <ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul> <p><b><u>LEAP Science Released Items:</u></b></p> <ul style="list-style-type: none"> <li>N/A</li> </ul>
Unit 3  Environments & Survival	<p><b><u>LDOE Formative Assessment Items</u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>Fossils, Ashfall Fossil Bed, Shark Tooth (3-LS4-1)</li> <li>Moth (3-LS4-2)</li> <li>Snails (3-LS4-3)</li> <li>Red Snapper, Tortoises (3-LS4-4)</li> </ul> <p><b><u>LEAP Practice Test Standalone Items:</u></b></p> <ul style="list-style-type: none"> <li>12 &amp; 33 (3-LS4-1)</li> <li>34 (3-LS4-2)</li> <li>13 &amp; 17 (3-LS4-3)</li> <li>14 (3-LS4-4)</li> </ul> <p><b><u>LEAP Assessment Guide Items:</u></b></p> <ul style="list-style-type: none"> <li>Pollinators (3-LS4-2)</li> </ul> <p><b><u>LEAP Science Released Items:</u></b></p> <ul style="list-style-type: none"> <li>Eras in Earth's History (3-LS4-1)</li> </ul>	<p><b><u>LDOE Formative Assessment Sets</u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>N/A</li> </ul> <p><b><u>LEAP Practice Test Sets:</u></b></p> <ul style="list-style-type: none"> <li>Rattlesnake (3-LS3-1 and 3-LS4-2)**</li> </ul> <p><b><u>LEAP Assessment Guide Sets:</u></b></p> <ul style="list-style-type: none"> <li>Task Set: Tundra Animals: Meet the Caribou and the Musk Ox (3-LS2-1, 3-LS4-3)**</li> </ul> <p><b><u>LEAP Science Released Items:</u></b></p> <ul style="list-style-type: none"> <li>Item Set: Salmon and River Dams (3-LS4-4)</li> </ul>
Unit 4	<p><b><u>LDOE Formative Assessment Items</u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>Climates, LA_BOS (3-ESS2-2)</li> <li>Gr3 Tornadoes, Levees (3-ESS3-1)</li> </ul>	<p><b><u>LDOE Formative Assessment Sets</u></b> (Password - Educate2020):</p> <ul style="list-style-type: none"> <li>N/A</li> </ul>

Unit	Discrete Items	Sets
Weather & Climate	<ul style="list-style-type: none"> <li>Gulf Birds (3-LS4-3)</li> </ul> <p><u><b>LEAP Practice Test Standalone Items:</b></u></p> <ul style="list-style-type: none"> <li>9 (3-ESS3-1)</li> <li>16 (3-ESS2-2)</li> </ul> <p><u><b>LEAP Assessment Guide Items:</b></u></p> <ul style="list-style-type: none"> <li>Tornadoes (3-ESS3-1)</li> </ul> <p><u><b>LEAP Science Released Items:</b></u></p> <ul style="list-style-type: none"> <li>Rainfall (3-ESS2-1)</li> </ul>	<p><u><b>LEAP Practice Test Sets:</b></u></p> <ul style="list-style-type: none"> <li>Winter Storms (3-ESS2-1 and 3-ESS3-1)</li> <li>Plants and Heat (3-LS3-2 and 3-ESS2-1)**</li> </ul> <p><u><b>LEAP Assessment Guide Sets:</b></u></p> <ul style="list-style-type: none"> <li>Item Set: Lightning and Static Electricity (3-PS2-3, 3-ESS2-1)**</li> </ul> <p><u><b>LEAP Science Released Items:</b></u></p> <ul style="list-style-type: none"> <li>N/A</li> </ul>

\*\*Contains performance expectations from a previous unit