



**East Baton Rouge School System**

A Publication of the Office of Curriculum, Instruction, & PD

# Science Grade 4 2019-2020

## **Acknowledgements**

*This work reflects a collaborative effort of teachers across our district along with the support of staff from the Office of Curriculum and Instruction.*

*Jessica Baker, LaSalle Elementary*

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*Aimee Weiter, Villa del Rey Elementary*

Grade 4																		
PreTest Aug. 9-12	UNITS	<b>Unit 1 Weathering and Erosion</b>	<b>Unit 2 Earth's Processes</b>	<b>Unit 3 Structures and Process of Organisms</b>	<b>Unit 4 Waves and Communication</b>	<b>Unit 5 Energy</b>	<b>Unit 6 Earth and Human Activity</b>											
	Anchor Phenomenon	LA Coastal Erosion	La Brea Tar Pits	How Animals See the World	Bat Echolocation	Meteor Crater (AZ)	Cell Phones in Developing Countries											
	*Instructional Time Frame	32 Days Aug. 13- Sept. 27	16 Days Sept. 30 – Oct. 24	32 Days Oct. 25 – Dec. 16	24 Days Jan. 8 - Feb. 11	16 Days Feb. 12 - Mar. 9	23 Days Mar. 10- Apr. 9											
	Testing Time Frame	Sept. 25-27	Oct. 22-24	Dec. 14-16	Feb. 8-11	Mar. 7-9	April 7-9											
	Standards	4-ESS2-1 4-ESS2-3 4-ESS2-2* 4-ESS3-2 4-PS4-1	4-ESS1-1 4-ESS2-2*	4-PS4-2 4-LS1-1 4-LS1-2	4-PS4-1* 4-LS1-1 4-LS1-2	4-PS3-1 4-PS3-3	4-PS3-2 4-PS3-4 4-ESS3-1											
	Spring LEAP 2025 Window	<b>April 1st – May 3rd</b> All Louisiana Student Standards for Science are eligible for assessment. The test will assess a student's understanding of the LSS for Science, reflecting the multiple dimensions of the standards. The test items will include item sets, task sets, and discrete items.																
	Technology Integration	<p><b>Purpose:</b> In today's society, it is critical for students to be able to use the vast amount of technology available to them. Computer literacy will provide students with skills they need to succeed in the technological age. The technology standards identified below support schools in building students' digital literacy by authentically incorporating technology into instruction at every grade level.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Digital Citizenship</b></td> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Empowered Learner</b></td> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Knowledge Constructor</b></td> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Creative Communicator</b></td> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Computational Thinker</b></td> <td style="width: 16.6%;"><a href="#">ISTE Focus</a> <b>Global Collaborator</b></td> </tr> <tr> <td><a href="#">LDOE Focus</a> ACPS.1-8, ACPO. 11</td> <td><a href="#">LDOE Focus</a> WP.1, WP.6, WP.9, WP.10, BCO.1-9, 5.13, RIG.6</td> <td><a href="#">LDOE Focus</a> RIG.2-5, RIG.12, PMT.5,S.1-6</td> <td><a href="#">LDOE Focus</a> PMT.1-4, PMT.6-7</td> <td><a href="#">LDOE Focus</a> MA.1 RIG.1</td> <td><a href="#">LDOE Focus</a> WP.2-5, WP.7, CC.1-5,CC.6, CC.8</td> </tr> </table>						<a href="#">ISTE Focus</a> <b>Digital Citizenship</b>	<a href="#">ISTE Focus</a> <b>Empowered Learner</b>	<a href="#">ISTE Focus</a> <b>Knowledge Constructor</b>	<a href="#">ISTE Focus</a> <b>Creative Communicator</b>	<a href="#">ISTE Focus</a> <b>Computational Thinker</b>	<a href="#">ISTE Focus</a> <b>Global Collaborator</b>	<a href="#">LDOE Focus</a> ACPS.1-8, ACPO. 11	<a href="#">LDOE Focus</a> WP.1, WP.6, WP.9, WP.10, BCO.1-9, 5.13, RIG.6	<a href="#">LDOE Focus</a> RIG.2-5, RIG.12, PMT.5,S.1-6	<a href="#">LDOE Focus</a> PMT.1-4, PMT.6-7	<a href="#">LDOE Focus</a> MA.1 RIG.1
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LEAP 2025 Testing Window POSTTEST MAY 4-8																		

**Grade 4 Science**  
**Unit 2: Earth's Processes**

**Possible time frame: Sept. 30 – Oct. 24 (16 Days)**

**Anchor Phenomenon:** Fossils of dire wolves, saber-tooth cats, and woolly mammoths are among the over 3.5 million fossils found in Los Angeles, California.

**Guiding Questions:**

1. What are the La Brea Tar Pits and where are the pits located?
2. How do the tar pits help to preserve fossils?
3. How did earthquakes along the San Andreas Fault contribute to the La Brea Tar Pits?
4. What evidence can we gather from patterns in rock formations and fossils in rock layers at La Brea Tar Pits that reveal Earth's landscape has changed over time?

**COURSE DESCRIPTION**

**Fourth Grade Science Standards Overview**

The Fourth Grade Science course focuses on the study of energy, waves and their applications in technologies for information transfer, from molecules to the organism: structures and processes, Earth's place in the universe, Earth's system, Earth and human activity.

**Standards**

**Clarification Statement**

<p><b>4-ESS1-1</b> Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in landforms over time.</p>	<p>Examples of evidence from patterns could include rock layers with marine shell fossils above rock layers with plant fossils and no shells, indicating a change from land to water over time, and a canyon with different rock layers in the walls and a river in the bottom, indicating that over time a river cut through the rock.</p> <p>Does not include specific knowledge of the mechanism of rock formation or memorization of specific rock formation and layers.</p>
<p><b>4-ESS2-2*</b> Analyze and interpret data from maps to describe patterns of Earth's features.</p>	<p>Maps can include topographic maps of Earth's land and ocean floor, as well as maps of the locations of mountains, continental boundaries, volcanoes, and earthquakes.</p>