



Teaching and Learning

Louisiana Guide to Implementing IQWST: Grade 8

To assist teachers with the implementation of the IQWST curriculum for grade 8, this document provides guidance regarding how the IQWST modules correlate with the [Louisiana Student Standards for Science](#) (LSSS). The IQWST curriculum provides ample instructional guidance for teachers. This Louisiana Guide for Implementing IQWST goes a step further to point out places in which teachers may need to make strategic decisions considering student needs.

IQWST Grade 8 may include performance expectations featured in other grade levels. These 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 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.

February 4, 2025

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Standards by Unit

	Module 1 Chemistry IC2	Module 2 Physical Science PS2	Module 3 Earth Science ES3	Module 4 Life Science LS3
Number of Lessons	14 lessons 2 Appendices	11 lessons 1 Appendix	10 lessons 3 Appendices	11 lessons 3 Appendices
Anchor Phenomenon Question	How can I make new stuff from old stuff?	Why do some things stop while others keep going?	How is the Earth changing?	Why do organisms look the way they do?
Standards ²	8-MS-PS1-1 8-MS-PS1-3 8-MS-PS1-6* 7-MS-PS1-2 7-MS-PS1-4 7-MS-PS1-5	8-MS-PS1-6* 8-MS-PS3-3† 8-MS-PS3-5 6-MS-PS3-1 6-MS-PS3-2 6-MS-PS2-3 6-MS-PS2-4 6-MS-PS4-1 6-MS-PS4-2 7-MS-PS1-2 7-MS-PS1-4 7-MS-PS3-4	8-MS-ESS1-4 8-MS-ESS2-1 8-MS-ESS2-2 8-MS-ESS2-3 8-MS-ESS3-2 8-MS-LS4-1*† 6-MS-ESS3-4 7-MS-PS1-4 7-MS-PS1-5	8-MS-LS1-4*† 8-MS-LS1-5 8-MS-LS3-1 8-MS-LS4-2† 8-MS-LS4-3† 8-MS-LS4-6 8-MS-ESS3-3† 6-MS-LS1-2 6-MS-LS2-1 7-MS-LS2-4 7-MS-LS3-2 7-MS-LS4-4 7-MS-LS4-5

†The identified phenomenon only partially addresses the performance expectation. 8-MS-ESS3-1 is not addressed by the Grade 8 IQWST units. The performance expectations can be addressed by incorporating the [Grade 8 Louisiana Sample Scope and Sequence](#).

*Performance expectation appears in more than one module.

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
Module 1 Chemistry IC2	<p><u>LEAP Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Marbles (8-MS-PS1-1) Mixing Liquids (8-MS-PS1-3) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Quartz (8-MS-PS1-1) Tire Materials (8-MS-PS1-3) 	<p><u>LDOE Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> Item Set: Nitinol (8-MS-PS1-1, 8-MS-PS1-3) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> N/A
Module 2 Physical Science PS2	<p><u>LEAP Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Potato Experiment (8-MS-PS3-3) Sailboat (8-MS-PS3-5) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 22, 34 (8-MS-PS1-6) 38 (8-MS-PS3-3) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> N/A 	<p><u>LDOE Formative Assessment Items (Password- Educate2020)::</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> Item Set: Solar Cooker (8-MS-PS3-3, 8-MS-PS3-5) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> N/A
Module 3 Earth Science ES3	<p><u>LEAP Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Fossils, California Rock Formation (8-MS-ESS1-4) South America (8-MS-ESS2-1) Mushroom Rock (8-MS-ESS2-2) Pangaea (8-MS-ESS2-3) 	<p><u>LDOE Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Item Set: North Carolina Landslides (8-MS-ESS2-2, 8-MS-ESS3-2) Item Set: Tornadoes (8-MS-ESS3-2)

Unit	Discrete Items	Sets
<p>Module 3</p> <p>Earth Science ES3 <i>continued</i></p>	<ul style="list-style-type: none"> Cascadia (8-MS-ESS3-2) Geo_Time_Scale (8-MS-LS4-1) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 15, 33, 39 (8-MS-ESS1-4) 36 (8-MS-ESS2-2) 13, 35 (8-MS-ESS2-3) 37 (8-MS-ESS3-2) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Sedimentary Rock (8-MS-ESS2-1) 	<p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> Task Set: Tsunamis & the Louisiana Coast (8-MS-ESS2-1, 8-MS-ESS3-2) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> N/A
<p>Module 4</p> <p>Life Science LS3</p>	<p><u>LEAP Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Daisies (8-MS-LS1-5) Miles Davis (8-MS-LS3-1) Horses, Embryo Development, Bats (8-MS-LS4-2) Comparing Embryos (8-MS-LS4-3) Hummingbird (8-MS-LS4-6) <p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> 41 (8-MS-LS1-5) 32 (8-MS-LS4-1) 14 (8-MS-LS4-2) 23 (8-MS-LS4-3) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Louisiana Sedimentary Rock (8-MS-LS4-1) Bird Species (8-MS-LS4-6) 	<p><u>LDOE Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> N/A <p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> Item Set: Surviving in Desert Landscapes (8-LS1-5, 8-LS1-4)* Item Set: Brown Pelicans (8-MS-LS1-4, 8-MS-PS3-5)* Task Set: Opal (8-MS-ESS3-1, 8-MS-ESS3-3)+ <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> Task Set: Aquifers in Louisiana (8-MS-ESS3-1, 8-MS-ESS3-3)+
<p>Other standards</p>	<p><u>LEAP Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> Petroleum (8-MS-ESS3-1) 	<p><u>LDOE Formative Assessment Items (Password- Educate2020):</u></p> <ul style="list-style-type: none"> N/A

Unit	Discrete Items	Sets
<p>Other standards</p> <p><i>cont.</i></p>	<p><u>LEAP Practice Test Standalone Items:</u></p> <ul style="list-style-type: none"> • 40 (8-MS-ESS3-1) <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> • N/A 	<p><u>LEAP Practice Test Sets:</u></p> <ul style="list-style-type: none"> • N/A <p><u>LEAP Assessment Guide Items:</u></p> <ul style="list-style-type: none"> • N/A

*set includes a performance expectation from a previous unit

+set includes a performance expectation not fully covered in this scope and sequence