

Louisiana Believes

OpenSciEd Materials and Professional Development Pricing

This document provides schools and school systems an overview of OpenSciEd, information on purchasing materials and information about professional development. Please send questions and feedback to classroomsupporttoolbox@la.gov.

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Overview of OpenSciEd

OpenSciEd is an effort among science educators, curriculum developers, teachers and philanthropic foundations to improve the supply of and demand for high-quality K-12 science instructional materials by producing open-sourced, freely available instructional materials designed for college and career-ready science standards. OpenSciEd works with classroom educators, experienced science curriculum developers, individual school districts, education non-profit Achieve, and the science education community to create and pilot robust, research-based, open-source science instructional materials.

Field Testing and Release of Units

Ten partner states volunteered to join this effort including: California, Iowa, Louisiana, Massachusetts, Michigan, New Mexico, New Jersey, Oklahoma, Rhode Island, and Washington. After the initial development of the OpenSciEd units, the unit prototypes or **field test units** undergo rigorous external review and robust field-testing in participating classrooms across partner states. Seven Louisiana districts are involved in field-testing the units. The field test units are revised based on the feedback and data collected. The revised or **complete** units are submitted to Achieve’s EQiP Peer Review Panel and made freely and openly available to the public upon earning a quality rating. The OpenSciEd release schedule provides for **complete units** to release three at a time beginning August 2019 with the entire middle school program (18 units total) fully completed and released in early 2022.

Louisiana Guides to Piloting OpenSciEd

The Louisiana Guides to Piloting OpenSciEd: Grades [6](#), [7](#), and [8](#) provide guidance to assist middle school teachers with the field-testing of the OpenSciEd curriculum. The guides include sample scope and sequences, which integrates the OpenSciEd curriculum and the Louisiana Sample Scope and Sequence documents. The scope and sequences do not illustrate the only appropriate sequence to teach the units. The units can be organized into different learning sequences and the performance expectations can be bundled around different phenomena.

The OpenSciEd units may include performance expectations from previous or future 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 is not recommended and should be approached with caution and careful consideration.

Contact

For questions or requests for additional information on the OpenSciEd initiative and/or materials, contact info@openscienced.org.

OpenSciEd Materials: Access and Purchasing Information

Educators piloting OpenSciEd may choose to download the open source [digital files](#) and/or [assemble their own kits](#). Print materials and kits are also available for purchase from participating vendors as described below.

Print Materials: Teacher and Student Edition Printed Booklets

Digital files (e.g. printed copies of Teacher Edition and Student Edition booklets) are available for purchase from Kendall Hunt.

Kits: Laboratory Equipment and Other Scientific Supplies

Kendall Hunt offers kits for *field test versions* of units. AquaPhoenix offers kits for *Complete Units* as they are released. The chart below provides an overview of the kits offered by vendors for 2020-2021.

2020-2021 OpenSciEd Sample Scope and Sequence Unit		Kendall Hunt	AquaPhoenix
Grade 6	Light and Matter 6.1 (Field Test Version)*	√	
	Contact Forces 8.1 (Complete Unit)		
	Sound Waves 8.2 (Complete Unit)		√
	Forces at a Distance 8.3 (Complete Unit)		√
	Earth in Space 8.4 (Field Test Version)*	√	
	Cells 6.6 (Field Test Version)**	√	
Grade 7	Thermal Energy 6.2 (Complete Unit)		√
	Water Cycling and Weather 6.3 (Complete Unit)		√
	Chemical Reactions and Matter 7.1 (Complete Unit)		√
	Metabolic Reactions 7.3 (Complete Unit)		√
	Matter Cycling and Photosynthesis (Complete Unit)		√
	Ecosystem Dynamics 7.5 (Field Test Version)*	√	
Grade 8	Plate Tectonics and Rock Cycling 6.4 (Field Test Version)*	√	
	Natural Hazards 6.5 (Field Test Version)*	√	
	Energy in Chemical Reactions (Field Test Version)*	√	
	Natural Resources and Human Impact (Field Test Version)**	√	
	Genetics 8.5 (Field Test Version)*	√	
	Natural Selection and Common Ancestry (Field Test Version)**	√	

Complete Kit Available Winter 2021*

Field Test Kit Available Winter 2021**

Ordering Information

- To purchase [Kendall Hunt](#) materials download the order form [here](#) and email it to orders@kendallhunt.com or fax it to 1-800-772-9165.
- To purchase AquaPhoenix materials click [here](#).

Professional Development Vendors

Teachers are better positioned to support students’ meaningful growth when they have access to initial and on-going professional development that helps them utilize quality curriculum effectively. OpenSciEd materials are freely accessible online. However, we highly recommend that all teachers participating in the pilot undergo at minimum, an **Initial OpenSciEd Training**, which is designed to build teachers’ familiarity with the structure, approach, and key components of the curriculum. The following professional development providers are staffed with qualified facilitators who have received official training from OpenSciEd.

OpenSciEd PD Provider	Contact	Initial Trainings	Follow-up Trainings	District Specific Trainings	Open Enrollment Trainings	Initial Implementation Support	Ongoing Implementation Support
Louisiana Tech SciTEC	Diane Madden dmadden@latech.edu 318-257-2866	✓	✓	✓	✓	✓	✓
TNTP	Mary Jones mary.jones@tntp.org 415-577-4342	✓	✓	✓	✓	✓	✓
University of Texas at Austin Charles A. Dana Center	Sara Spiegel saraspiegel@austin.utexas.edu 512-522-5860	✓	✓	✓	✓	✓	✓
Side-by-Side Strategies	Cathi Cox-Boniol ccb91110@gmail.com 318-268-7558	✓	✓	✓	✓	✓	✓

The Department will communicate OpenSciEd open enrollment events through [Teacher Leader Newsletters](#) and [School System Planning Calls](#).

Professional Development Services: Louisiana Tech SciTEC

The Science and Technology Education Center (SciTEC) in the College of Education at Louisiana Tech University offers support for teachers, teacher leaders, instructional coaches, administrators, and students using high quality science curricula. Professional development sessions are specialized to meet the needs of teachers, schools, and districts.

Title	Description	Method	Duration	Max Participants	Cost
Introduction to Utilizing Tier 1 Science Inquiry Methods	This course is self-paced and designed to support educators with the initial implementation of the OpenSciEd curriculum. Participants will learn how to implement phenomenon-based and three-dimensional instruction.	Online	10 weeks	No maximum number	\$400 per teacher with a minimum of 10 teachers
OpenSciEd Initial Training	This professional development series introduces educators to the key instructional strategies in the OpenSciEd curriculum. Participants will learn how to implement phenomenon-based and three-dimensional instruction and review curriculum embedded assessments.	Face to face	2 to 4-days	1 facilitator for every 30 participants	Varies (depends on PD duration and the number of participants) Call for quote
OpenSciEd Follow-up Training	This professional development series serves as a follow-up to the initial OpenSciEd training.	Face to face	One-day Session	1 facilitator for every 30 participants	Varies (depends on PD duration and the number of participants) Call for quote

For more information about partnership services, including customized packages, contact Diane Madden at 318-257-2866, dmadden@latech.edu.

Professional Development Services: TNTP

TNTP’s mission is to end the injustice of educational inequality by providing excellent teachers to the students who need them most and by advancing policies and practices that ensure effective teaching in every classroom. TNTP is a national non-profit and, since 2001, has worked with parents, educators, and school and district leaders to improve the lives of Louisiana’s next generation. Now, TNTP is redoubling its commitment to Louisiana’s children—to give all students a great education. TNTP believes they can make that a reality by prioritizing great teaching, rigorous academics, and supportive learning environments.

Title	Description	Method	Duration	Max Participants	Cost
OpenSciEd Initial Training	<p>This professional learning series will support educators in understanding the key shifts called for by the LSSS and how the shifts are demonstrated in the OpenSciEd curriculum. Participants will examine the components of 3-dimensional learning, understand the role of each dimension in facilitating student sense-making, and how OpenSciEd integrates the dimensions into a unit.</p> <p>Participants will dive deeply into a unit, understanding the role of phenomena, the storyline, key instructional routines in OpenSciEd, and how they support equitable learning opportunities for all students. Participants will have an opportunity to watch exemplar models of routines embedded in the unit and reflect on ways to support their students. Educators will internalize their first unit and have an opportunity to get support planning their first few days of instruction with students.</p>	In Person/ Virtual	Customized	Depends on Setting	Customized Call for quote
OpenSciEd Follow-up Training	This professional learning series will serve as a follow up to the initial training, building on participants’ experience with OpenSciEd in a differentiated way. Some focus area options promote equity in student discussions, assessment, student writing in science, and responding to student misconceptions.	In Person/ Virtual	Customized	Depends on Setting	Customized Call for quote
Science Coaching & Support	<p>TNTP provides a variety of school-based instructional coaching support based on the context and needs of target districts. TNTP works directly with PLC leads, teacher leaders, instructional coaches and teachers to:</p> <ul style="list-style-type: none"> Build an ongoing understanding of the structure and research behind the curriculum, and how to make strategic adaptations, while maintaining the integrity of the program 	In Person/ Virtual	Customized	Depends on Setting	Customized Call for quote

	<ul style="list-style-type: none"> • Understand the tenets of effective instructional coaching models to support co-development of school or district-based coaching models centered on content and curriculum • Co-develop a school or district-wide strategic support plan integrating PLC support, professional development, instructional coaching and curriculum through continuous development cycles • Develop protocols to support teacher understanding of the standards and curricula, including student work protocols, video protocols and lesson preparation protocols. 				
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For more information about partnership services, including customized packages, contact Mary Jones at 415-577-4342, mary.jones@tntp.org.

Professional Development Services: The University of Texas at Austin Charles A. Dana Center

The Charles A. Dana Center offers a coherent portfolio of professional development sessions to enrich educators' content knowledge and professional toolset. Sessions are most effective when experienced in series by teams from schools or districts. Dana Center's standards-aligned leadership and science sessions are for educators and education leaders across the nation. The Dana Center offers professional support in various configurations, with a strong preference to work with teachers and leaders as part of a long-term coherent effort to improve districts' instructional practices. Many short sessions are designed to provide school systems with a gateway to the Dana Center's comprehensive K–12 systems services.

Title	Description	Method	Duration	Max Participants	Cost
OpenSciEd Initial Training	This professional learning series is designed to orient participants to the routines and pedagogical strategies that are foundational to the exemplary, open-source, coherent science instructional materials found in OpenSciEd. By digging deeply into a unit, participants will strengthen their understanding of 3-dimensional learning. The session will familiarize teachers with a unit so they are confident and excited about enacting it with students, prepare teachers for the practical aspects of enactment, and support teachers in considering specific strategies for addressing student needs within their school context.	In-person	2 to 4 days	30 per unit	Varies (depends on PD duration) Call for quote
OpenSciEd Follow-up Training	This two-day professional learning series serves as a follow-up to the Initial Professional Development Package and prepares teachers to enact a grade-appropriate unit.	In-person	2 days	30 per unit	\$5,850 per unit \$17,500 for 3 units (6 th , 7 th , & 8 th)

For more information about partnership services, including customized packages, contact Katey Arrington, katey.arrington@austin.utexas.edu, or visit www.utdanacenter.org.

Professional Development Services: Side-by-Side Strategies

Side by Side Strategies specializes in professional development and support for science and STEM teachers. Its award-winning facilitators design customized training featuring engaging and participant-centered learning experiences. Facilitators have been trained in multiple modules for OpenSciEd and presented highly effective professional development supporting it and other key topics.

Title	Description	Method	Duration	Max Participants	Cost
Diving Into OpenSciEd	Participants will engage in in-depth training on one specific OpenSciEd unit. The process will include the anchoring phenomenon routine as well as select investigative experiences and navigating between lessons and lesson sets, problems of practice, and the storyline of the unit. Participants will engage as a student through each learning experience before debriefing as a facilitator.	Face-to-Face or Blended with Virtual	4 days	30	\$15,000
Discovering OpenSciEd	Overview training on one specific OpenSciEd unit. Participants will engage in the anchoring phenomenon routine before exploring the full storyline of the unit. Limited investigative experiences are included along with a problem of practice.	Virtual, Face-to-Face, or Blended	2 days	30	\$8,000
Introduction to Anchoring Phenomenon	Foundational training on the anchoring phenomenon routine allows participants to engage in the process that sets the stage for the remainder of the OpenSciEd unit. After completion of the routine, participants will debrief while taking a deeper dive into the rationale behind the routine.	Virtual or Face-to-Face	1 day	30	\$5,000

Experiencing OpenSciEd “Look Fors”	This experience provides assistance for instructional leaders/administrators in identifying OpenSciEd elements. Participating leaders will engage in classroom walk-throughs with the Side-by-Side team in order to identify high quality classroom instruction and learning as well as evidence of the practices presented through OpenSciEd. Leaders will determine next steps for OpenSciEd facilitators.	Blended	1-2 days	Group - 30 Class Visits 3	\$5,000 - \$8,000
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For more information about partnership services, including customized packages, contact Cathi Cox-Boniol at 318-268-7558, ccb91110@gmail.com