

# ENGAGING STUDENTS IN LSSS-ALIGNED INSTRUCTION

## Menu of Services Overview and Rationale



**Overview:** STEM Library Lab is offering Professional Development for Science Methods to schools. This session series walks teachers and coaches through instructional practices used to facilitate inquiry based classrooms, rooted in the Louisiana Student Standards for Science. Sessions account for the statewide shift to Tier 1 Aligned curriculum, and prepare teachers to adapt their instructional practices based on the school's selected High Quality Instructional Materials.

**Explanation:** This workshop series is intended for schools and networks that are looking to improve their teachers' ability to implement lessons, units, and curriculum aligned to the new Louisiana Student Standards for Science. This includes how to read and use the new standards, phenomenon and inquiry-based lesson planning, and in-class instructional strategies for science classrooms.

**Rationale:** This workshop series was developed at the behest of current SLL member schools because teachers and administrators were reporting that teachers were having difficulty effectively planning for science, implementing rigorous hands-on lessons, and assessing students according to the new standards.

**Customization:** Science instruction looks different at schools across this city for a variety of reasons. This workshop series is tailored to meet your school's needs.

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## Services Offered



### FULL SERVICE INCLUDES :

1 Administrative Session

8 Teacher Sessions

8 Walk-throughs

8 Coach Debriefs

Ongoing Supports



Equipment Lending Co-op  
Year-long Full Membership  
Included

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## Description of Services



**Administrative Session:** Administrators will explore the basic underpinnings of the LSSS standards, and engage with rubrics and tools for how to conduct classroom observations and evaluate teacher effectiveness, along with coaching strategies to help teachers improve rigor and engagement.

**Session One | Navigating the Standards:** Teachers walk through the Science Storyline model for unit construction, and deep dive into their curriculum planning materials around executing rigorous and student centered unit launches.

**Session Two | Assessment in LSSS-Aligned Classrooms:** Teachers evaluate examples of phenomena-based assessments that support new standards and learn how to construct and modify LEAP-aligned assessment questions with the Stimulus-Data-Prompt model.

**Session Three | Asking Questions:** A notable switch in the classroom where students ask the questions while teachers facilitate by guiding students through the scientific process to find the answers. Teachers are no longer the keepers of knowledge.

**Session Four | Developing and Using Models:** Making models is an integral part of phenomena instruction. Scientists use models to play a specific role in inquiry. During this session, teachers will receive the training to guide students to that understanding.

**Session Five | Analyzing and Interpreting Data:** This session focuses on how students interact with data. Based on the LSSS, students are required to use sense-making strategies and draw conclusions that lead to understanding of the DCI while creating claims that are based on evidence provided in data.

**Session Six | Constructing Explanations and Arguing from Evidence (CERs):** CERs are important to sense-making. As the students explore the phenomena, there are checkpoints within the lessons that allow students to draw conclusions based on evidence from activities and data in the lesson.

**Session Seven | Obtaining and Evaluating Information from Scientific Text:** Teachers are given strategies that will enable students to get information from scientific text. Teachers will access tools that will allow students the ability to use search engines to gather the most relevant information to add to their understanding of the phenomena.

**Session Eight | Planning and Carrying out Investigations:** Teachers are introduced to a variety of the challenges common to hands-on instruction aligned to the LSSS standards, and revise lessons to incorporate strategies that ensure positive academic and management outcomes.

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**Walk-throughs:** After each session, a walkthrough will be conducted, including classroom observations and teacher interviews followed by a debrief with administration and a post walk-through report.

**Coaches Sessions:** Administrators will engage with rubrics and tools for how to conduct classroom observations and evaluate teacher effectiveness, along with coaching strategies to help teachers improve rigor and engagement

### One Year-long School-wide Membership to SLL's Equipment Lending Co-op

#### On-site library orientation and walk-through

Teachers will visit the library, learn about resources, and create borrower profiles in order to check out equipment.

#### Content-specific workshops

Teachers will be invited, based on subject/grade-level, to attend Communities of Practice and Office Hours with Experts workshops at SLL

#### On-site planning support

Teachers can visit SLL with questions about lesson planning and received personalized, tailored support from SLL team

#### Teachers' Lounge access

Teachers can work from our open Teacher Co-Working Center, with access to photocopier, poster printer, laminator, and standard office and workspace materials.