

PROFESSIONAL DEVELOPMENT

SESSION OVERVIEW

This session takes participants through the Module and Lesson Study Protocols to deepen their understanding of the structure, science content, and learning progression within *PhD Science*. Participants explore the key learning in module and a lesson set by diving deeply into the underlying science concepts. They also examine the curriculum's components to identify how the investigations and activities help students build knowledge as they work to explain real-world phenomena. Participants explore how to grow their current science planning and teaching practices through knowledge-building and reflection. By actively engaging in the protocols throughout the session, participants are able to enhance their knowledge of *PhD Science* and make a plan for upcoming instruction.

SESSION OBJECTIVES

Participants will:

- explore the content and ideas in a module and a lesson set through a deep dive into the underlying science concepts and the knowledge and skills students develop,
- examine the curriculum components to understand the investigations and activities that enable students to build knowledge as they work to explain real-world phenomena, and
- leverage processes that deepen learning and preparation for a module, a lesson set, and a lesson.

TIME	AGENDA	DESCRIPTION
10 minutes	Launch	<ul style="list-style-type: none"> • Review the session objectives, materials, and other housekeeping items.
30 minutes	Learn I Why are the study protocols a valuable planning tool?	<ul style="list-style-type: none"> • Identify what coherent, incremental knowledge-building means and looks like • Understand why the protocols exist and the rationale behind their structure
155 minutes	Learn II How can studying a module support effective planning?	<ul style="list-style-type: none"> • Explore the Module Study Protocol • Apply and hone module-level planning practices
155 minutes	Learn III How can studying a lesson set support effective planning?	<ul style="list-style-type: none"> • Explore the Lesson Study Protocol • Apply and hone lesson set-level planning practices
10 minutes	Land	<ul style="list-style-type: none"> • Ask any remaining questions. • Reflect on and summarize learning.

There will be two 10-minute breaks and a 1-hour lunch break during the session.