

CHUNK THE ELEMENTARY SCIENCE STANDARDS

Teacher Professional Development Course Outline

Objectives

Teachers will develop the knowledge and skills necessary to apply the Scientific Minds approach to teaching science in their classrooms, a method proven to impact student learning:

- Learning to navigate the user account
- Understanding all the resources available with a user account
- Learning to navigate the Science Sidekick lesson modules
- Understanding how to implement the Science Sidekicks for whole-class instruction and for individual use, learning centers, and group tutorials

Teachers will develop new professional knowledge:

- Aligning instruction to state and national science standards
- Implementing the 5E+ instructional model to improve student outcomes

Teachers will develop new professional skills:

- Maintaining classroom behavior
- Implementing reading, speaking, and vocabulary strategies
- Implementing effective formative and summative assessment
- Disseminating assessment data to effectively address student outcomes
- Implementing exit ticket strategies to drive daily instruction

Teachers will practice applying new professional knowledge and skills:

- Using shared planning time to discuss the Scientific Minds approach to teaching science
- Planning to implement the Science Sidekicks
- Creating lesson plans throughout the year using the training modules
- Planning for effective student assessment and dissemination of assessment data



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Course Timeline

Module Title	Video Time (Minutes)	Approximate Time to Complete Module Activities
Introduction to the PD Platform	4:36	
Navigating Your Scientific Minds Account	3:14	Practice navigating the teacher account and answer questions 15 minutes
The 5E+ Model	2:28	Answer questions 10 minutes
Navigating the Sidekick Home Page	2:45	Practice navigating the home page and answer questions 15 minutes
The Engage Learning Piece	3:09	Open Sidekicks and answer questions 20 minutes
The Explain Learning Piece	6:02	Answer questions 10 minutes
The Elaborate Learning Piece	4:48	Open Sidekick and answer questions 20 minutes
The Evaluate Learning Piece	6:00	Navigate Teacher Ancillary page and answer questions 15 minutes
The Explore Learning Piece	2:00	Open Sidekicks and answer questions 15 minutes
The Exit Tickets Learning Piece	2:22	Open Sidekicks and answer questions 20 minutes
Supporting State Science Standards	3:18	Answer questions, gather documents, and plan to implement Sidekicks 2 hours 30 minutes
Digital Assessment and Grading	3:56	Check enrollment and navigate message center 10 minutes
Evaluation	1:45	Answer questions 10 minutes
Totals	46:23	5 hours 15 minutes
6 Hours Total Time		