

Chunk the Middle School 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
- Understanding how to implement the Science Starters for whole-class instruction and for individual or group tutorials

Teachers will develop new professional knowledge.

- Understanding state and national science standards
- Knowledge of the 5E instructional model
- Strategies for remediation and intervention
- Engaging other teachers in cross-curricular instruction

Teachers will develop new professional skills.

- Maintaining classroom behavior
- Implementing reading and vocabulary strategies
- Effectively using formative and summative assessment of student learning
- Disseminating assessment data to effectively address student outcomes
- Preparing students for project-based learning
- Involving parents in student learning

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 Starters
- 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 Answer Questions and Complete Activity
Introduction	6:33	
Navigating the Scientific Minds System	3:41	Practice navigating the platform 30 minutes
Teacher-Guided and Video Options	2:43	Practice navigating the Science Starters 30 minutes
The 5E Instructional Model	4:05	Become familiar with the 5E features 30 minutes
Flipped Teaching	2:01	10 minutes
Science Across the Curriculum	2:25	5 minutes
Strategies for Remediation and Intervention	4:04	Review the handout 15 minutes
Vocabulary Activities	4:28	Review the "Vocabulary Activities" handout 20 minutes
Student Assessment	6:04	Practice navigating the assessment platform 25 minutes
State Science Standards	3:23	Plan for use 2 hours 30 minutes
Evaluation	2:09	10 minutes
Totals	41:36	5 hours 15 minutes
6 Hours Total Time		