

Today's Learning Outcomes...

- Get to know your SEPAL Scientific Teaching Summer Institute colleagues!
 - Distinguish the components of Scientific Teaching through a shared classroom experience.
 - Discuss the relationship between innovative teaching and the biological basis for learning.
 - Apply principles of Backwards Design to individual course contexts.
 - Construct a common understanding of “assessment” and its role in learning.
 - Compare and contrast different forms of assessment tools for uncovering student ideas.
 - Examine Bloom’s Taxonomy as a tool for evaluating and modifying assessments and apply to individual courses.
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9:00 - 9:40	Introductions: Getting to Know You...
9:40 - 9:50	Reflection: A Time to Reflect on Your Own...
9:50 - 10:00	Big Idea: Summer Institute Overview and Scientific Teaching Framework
<i>*10 min - Break *</i>	
10:10-11:10	Activity: Scientific Teaching – A Common Experience
<i>*5 min - Break *</i>	
11:15 - 11:20	Big Idea: Focusing on a Single Course and Thinking about the Future...
11:20 - 11:35	Activity: Keeping Your Eye on the Big Picture
11:35 - 11:55	Activity: Learning Goals for Our Courses
11:55 - 12:35	LUNCH
12:35 - 12:50	Discussion: Content Coverage and Prioritizing Student Learning Outcomes
12:50 - 1:00	Big Idea: Using Backwards Design to Prioritize What to Teach
1:00 - 1:20	Big Idea: Problems with Undergraduate Science Education
1:20 - 1:50	Activity: The Purpose of Assessment and the Role of Questions
<i>*5 min - Break *</i>	
1:55-3:15	Activity: Assessment A-Go-Go
<i>*10 min - Snack Break *</i>	
3:25 - 3:55	Activity: Exploring Bloom’s Taxonomy
3:55 - 4:35	Activity: Analyzing Our Exams/Quizzes Using Bloom’s Taxonomy
4:35 - 4:45	Big Idea and Activity: Teaching Action Plans and Wednesday Posters
4:45 - 4:50	Activity: Choose an area for the misconceptions hunt
4:50 - 5:00	Closing & Reflection

Today's Learning Outcomes...

- Compile a bank of student misconceptions that could serve as the basis for assessment prompts.
 - Explore how issues of equity and diversity affect student learning.
 - Experience how unstructured classroom environments can work against inclusiveness, fairness, and equity.
 - Discuss recent research on stereotype threat and unconscious bias in science.
 - Self assess current awareness of and use of common equitable teaching strategies.
 - Investigate group behaviors that can influence inclusiveness, fairness, equity.
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9:00 - 9:10 **Welcome and Reflections from Day 1**

9:10 - 9:30 **Big Idea and Movie: Uncovering Student Misconceptions**

9:30 - 10:10 **Activity: Misconceptions Research**

**10 min - Bathroom Break **

10:20 - 11:50 **Activity: Building Mobiles**

11:50 - 12:35 LUNCH

12:35 - 12:55 **Activity: Exploring 21 Simple Equity Strategies for Classrooms and Beyond**

12:55 - 1:10 **Self-Assessment: What Equity Strategies Are You Using?**

1:10 - 1:30 **Rock Stars of Science**

**10 min - Bathroom Break **

1:40 - 3:05 **Stereotype Threat Jigsaw**

3:05 - 3:15 **Videos: Final Thoughts on Stereotype Threat and the Value of Diversity in Science**

**10 min - Bathroom and Snack Break **

3:25 - 4:10 **Big Idea: Scientist Spotlights**

4:10 - 4:40 **Activity: Continuation of Teaching Action Plans**

4:40 - 5:00 **Closing & Reflection**

Today's Learning Outcomes...

- Construct a common understanding of “active learning.”
 - Experience and evaluate different amounts of time required for integrating active learning into a lecture.
 - Use the 5E model to analyze and modify a class session, identifying opportunities for active learning.
 - Applying active learning strategies to individual course contexts.
 - Reflect on how the Summer Institute is and is not likely to influence our teaching in the future.
 - Compose a plan for implementing small changes in our teaching based on Scientific Teaching.
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9:00 - 9:10	Welcome and Reflections from Day 2
9:10 - 9:25	Brainstorm and Video: What Can Active Learning Look Like in a Lecture?
9:25 - 10:25	Activity: Active Learning in 1, 5, 10, and 20 Minutes During a Lecture
<i>*10 min - Bathroom Break *</i>	
10:35 - 10:45	Discussion: Integrating Active Learning in Your Own Context
10:45 - 11:05	Activity: How to Thoughtfully Integrate Active Learning
11:05 - 11:20	Mini-Lecture: The 5 E's
11:20 - 11:30	Activity: Assigning E's to an Individual Class Session
11:30 - 11:40	Discussion: Strategies for Using the 5E Model to Iteratively Change a Lesson
11:40 - 12:00	Activity: Tweak Your Lesson!
12:00 - 12:30	Activity: A Self-Assessment Tool for Active Learning
12:30 - 1:25	LUNCH and Group Photo
1:25 - 2:05	Carousel Graffiti: What Will You Use in Your Teaching in the Future?
<i>*10 min - Bathroom and Snack Break *</i>	
2:15 - 2:50	Poster Creation
2:50 - 3:55	Poster Session
3:55 - 4:15	Final Reflection
4:15 - 4:40	Celebration & Closing
4:40 - 4:45	Final Announcements