Next Generation Science in the Garden
Workshop Agenda
9:30 - 3:30 Day 1

9:30 Welcome, Introductions

9:50 NGSS Lesson vs Traditional Lesson
Activity: Parts of the Plant
Debrief: What do scientists do? What makes NGSS different?

10:10 Next Generation Science in the Garden
Presentation: Three dimensions of NGSS - Disciplinary Core Ideas, Science and Engineering Practices and Cross-Cutting concepts

10:30 Break

10:45 Model NGSS Lesson: Integrating Disciplinary Core Ideas with Science and Engineering Practices
Sample 2nd Grade Lesson: Seed Ya Later - Preview from New Life Lab NGSS Lessons coming out soon!
Debrief: Identifying the 3 dimensions of NGSS in the Lesson

11:30 Lesson Planning with the 5E’s: Engage, Explore, Explain, Elaborate, Evaluate
Read about and discuss lesson planning with the 5E’s

12:00 Lunch

12:45 Science and Engineering Practice Circus
Learn about and explore the 8 Science and Engineering Practices through sample garden activities

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1:45  Model NGSS Lesson: Integrating Disciplinary Core Ideas, Practices, and Crosscutting Concepts into Performance Expectations
Sample 1st Grade Lesson: Designing Garden Stands Inspired by Nature - Preview from New Life Lab NGSS Lessons coming out soon!
Debrief: Identifying the 3 Strands of NGSS in the Lesson

2:20  Break

2:30  “NGSS-ify” a Lesson
Explore and modify an existing garden lesson for NGSS alignment opportunities

3:15  Q and A, Reflections, Closing
Next Generation Science in the Garden
Workshop Agenda
9:30 - 3:30 Day 2

9:30       Welcome and Reflections

9:45       NGSS Scavenger Hunt
Explore opportunities the garden presents for teaching NGSS Disciplinary Core
Ideas, Practices, and Crosscutting Concepts

10:05      Strategies for Communicating, Clarifying and Revising Scientific Thinking
Strategy: Vocab in Action
Focus Question: How do plants make more plants?
Strategy: Developing and Using a Model

10:45      Break

11:00      Science and Engineering Practice: Developing and Using Models
Activity: Flower Power Part 2, The Growing Classroom 231
Strategy: Exploration Before Explanation
Strategy: Addition of New Information with Visuals
Strategy: Revising Models in Pairs

12:00      Lunch

12:45      Pollinator Observation
Activity: Focused Pollinator Observation
Debrief: Opportunities for Science Notebooking in the Garden

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1:00  **Science and Engineering Practice: Engaging in Arguments from Evidence**  
**Strategy: Claim Carousel**  
**Strategy: Science Talk**  
- Purpose of Science Talks  
- Agreements for Science Talks  
- Science Talk: Discuss Claims, Evidence and Reasoning  
Debrief: Opportunities for Claim Carousels and Science Talks in (or About) the Garden  

2:00  **Break**  

2:15  **Small Group Work: Developing an NGSS Garden Lesson**  
Sequence and modify existing activities (or create new ones!) to develop an Engage, Explore, Explain, Elaborate and Evaluate for your lesson  
Identify the Science and Engineering Practice for your lesson  

3:15  **Closing**