Goals

In this beginner's-level workshop, participants will:

1. gain an understanding of the philosophy behind the Next Generation Science Standards (NGSS) and their basic structure.
2. explore each of the three dimensions, one at a time, through hands-on activities.
3. feel prepared to learn more about the standards, on their own.

Introduction to the NGSS

Agenda

Welcome and overview of workshop*

Part 1: Demystifying the NGSS introductory presentation and Q&A

- Why are the standards changing? What do the NGSS look like? Where did the NGSS come from? What will happen next?

Part 2: Exploring the Science and Engineering Practices

- Brainstorm and sorting activity: What do Scientists and Engineers do?
- Station rotation: What do the Practices look like in the classroom?
- Poster presentation: How are the Practices similar and, or different in a Science versus an Engineering context?
- Reflection

Part 3: Considering the Crosscutting Concepts

- Presentation: Introduction to the Crosscutting Concepts (CCC)
- Station rotation: Name that CCC
- Group activity: What do the CCC look like as a progression from K to 12?
- Group activity: CCCs as "lenses" to view museum exhibits
- Reflection

Part 4: Digging into the Disciplinary Core Ideas

- Presentation: Exploring the anatomy of a Disciplinary Core Idea (DCI)
- Small group activity and discussion: What does a DCI look like as a progression from K to 12?
- Reflection

Part Five: PEs and tables

- Background presentation: What are Performance Expectations (PEs)?
- Background presentation: How do you read the NGSS tables?

Conclusion

- Final reflections
- Participants complete feedback cards

** This 1-day workshop runs from 9:30am - 3:30pm and includes a morning break and 45 minute lunch.*