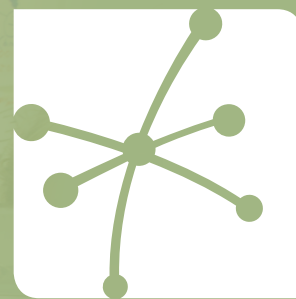


CROSSCUTTING CONCEPTS



Making Sense of
SCIENCE

FORMAT

Two 7-hour days of professional learning

AUDIENCE

K–12 teachers, facilitators, and coaches with any level of experience.

SEQUENCING

An ideal follow-up to the *Multidimensional Science Education* course and the *Science and Engineering Practices* course.

RELATED MATERIALS

We recommend the Classroom Innovations PLC protocol as a continuing learning tool.

This course supports participants in understanding what the crosscutting concepts are, how the crosscutting concepts differ from science and engineering practices and the disciplinary core ideas, how to use crosscutting concepts to make sense of core science and engineering ideas, and how to support students in using crosscutting concepts as tools for sense making, rather than treating them as additional science content. Participants also dig into the multidimensionality of the NGSS and how the NGSS supports the equitable engagement of all learners.

The science learning includes a variety of fun explorations across the sciences that launches participants in using the crosscutting concepts. Participants also investigate decomposition, food chains, energy in ecosystems, and the changes in matter that occur in decomposition. They then move on to making sense of momentum, collisions, and rotational motion.

Next Generation Science Implementation

The Next Generation Science Implementation (NGSI) suite of courses engages participants in multidimensional, adult-level science learning, investigations into next generation science mindset and pedagogical shifts, and strategizing for implementation. The NGSI courses are synergistic, so participants who engage with multiple courses develop a rich, multidimensional, and practical understanding of the properties of next generation science education and how to support implementation in their own context.

