SUPPORTING NEXT GENERATION SCIENCE IMPLEMENTATION

Making Sense of SCIENCE

FORMAT

One 7-hour day (or two 3-hour half days) of professional learning

AUDIENCE

Administrators with any level of experience and NGSS leadership teams with a mix of K–12 teachers, coaches, and administrators

SEQUENCING

An ideal starting point for those responsible for leading NGSS implementation efforts and for administrators whose teachers will be participating in other NGSI courses

This course is designed to provide a solid introduction to next generation science learning and teaching, and dive deeply into high-leverage topics for implementation.

Session A begins with administrators and leaders gaining firsthand experience with rich, multidimensional, 21st century science teaching — what it looks like, sounds like, and feels like, as well as what differentiates it from other types of science (e.g., hands-on science, textbook science, isolated science). Participants then discuss cases of NGSS implementation at the elementary and secondary level, and reflect on their status and challenges with implementation. This first session ends with participants figuring out the next steps to boost implementation at their sites.

In Session B, the focus is shifted to the innovations of next generation science. Participants engage in an engineering investigation and then dive into the major pedagogical and mindset innovations that underscore the philosophy of the NGSS. The session concludes with participants documenting their advice for themselves as they continue with their NGSS implementation.

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.

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