

+ Blending STEM Instruction with Service-Learning Workshop

Overview

KIDS Consortium and Maine Mathematics and Science Alliance have partnered to integrate expertise in service-learning and curriculum topic study to help teachers transform schools into authentic STEM/ service-learning environments. Curriculum Topic Study (CTS) is a National Science Foundation (NSF) funded project that developed a systematic approach to help K-12 educators deepen their understanding of the science topics they teach. CTS builds a bridge between STEM standards, research on student learning, and opportunities for students to learn through improved teacher practice.

This workshop is designed to prepare educators to plan and implement a high quality STEM service-learning project, using tools and strategies from our KIDS As Planners Guidebook and Curriculum Topic Study (CTS) materials. Participants will also have an opportunity to develop plans that integrate CTS and service-learning into their teaching environment and receive feedback on their ideas.

Target Audience and Workshop Length:

Two-day workshop designed for educators and administrators new to our service-learning model and/or CTS.

Participants will:

Identify a high quality service-learning project that meets national standards (K-12 Service-Learning Standards for Quality Practice and National Science Standards)
Learn about CTS as a way to build teacher understanding of what, how and why to teach particular topics in STEM content areas
Practice using CTS by conducting a study of the key ideas pertaining to data
Apply the CTS process to topics participants currently teach
Implement a high quality service-learning project for diverse learners
Build a collaborative environment
Incorporate reflective activities responsive to student learning styles
Create a plan for implementing high quality STEM service-learning
Improve plans through feedback from peers