



## • Coding from the Littles to the Middles: Teaching and Learning with Robots in Elementary School •

**Presenters:** Arlyn Bruccoli and Jennifer Fitch

**Audience:** *Elementary teachers, librarians, and technology integration specialists. No coding experience required, but if you have some that is fine, too!*

How can critical thinking, problem solving, sequential thinking, spatial reasoning, and collaboration be taught, while also teaching math, science, and literacy? Coding and building robots in an elementary class setting is a highly engaging place to start. Getting started with coding and robotics may seem daunting, but this workshop will highlight various access points and share a model for robotics integration across the K – 6 grade continuums.

Throughout this day-long workshop, learners will collaborate to successfully solve tasks presented. Participants will work in teams to program and complete challenges with Beebot, WeDo Lego robots, Dash, and Mindstorm Lego robots. All activities will be modified versions of science, math, and technology instruction from the presenters' K-6 setting. The presenters will also share examples of paper journals and blogging that support student reflection and planning.

This workshop will specifically address:

- The benefits and challenges of using robotics in an elementary setting
- Different access points for getting started with robotics
- How robotics support student collaboration to critically think and problem solve
- Examples of math, science, and literacy integration through robotics
- Best practices for leveraging robotic supplies across an elementary school

**Tech specifications:** We will use several coding and programming apps to program robots. Some of the apps run on iPads, some on Windows, and some on Chromebooks. Beebot does not require a computer or iPad to program.

**Dates:** January 20, 2017

**Place:** Capitol Plaza ~ Montpelier, VT

**Cost:** \$190 (lunch included)

**Time:** 8:30-3:30



Learn more and register at: <http://www.vthec.org>