



• 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 you integrate critical thinking, problem solving, sequential thinking, spatial reasoning, and collaboration, while also teaching math, science, and literacy? Coding and building robots won't fix all our educational challenges, but is a highly engaging place to start. This workshop will highlight various access points to integrating these skills and strategies, as well as share a model for robotics integration across the K – 6 grade continuum.

Throughout this day-long workshop, participants will work in teams to program KiBo, Beebot, WeDo Lego robots, Dash, Ozobot, and Mindstorm & EV3 Lego robots to complete challenges. This hands-on workshop model requires learners to collaborate in order to successfully solve the tasks presented. 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 students' reflection and planning.

This workshop will specifically address:

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

Tech specifications: We will use several coding and programming apps. Our school uses Windows machines, Chromebooks, and iPads. Some of the apps run on iPads, some on Windows, and some on Chromebooks. We will explore classroom uses of several robots that do not require a computing device.

Dates: November 17, 2017

Place: Capitol Plaza ~ Montpelier, VT

Cost: \$190 (lunch included)

Time: 8:30-3:30

Please inquire with Capital Plaza reservations (802-223-5252) about discounted hotel rates for the evening prior to this event.



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• **It Came from Outer Space: Integrating Technology and Writing Across the K-3 Curriculum** •

Presenters: Arlyn Bruccoli and Jennifer Fitch

Audience: *K-3 classroom teachers, library media specialists, technology integration specialist, special educators, and literacy specialists.*

Description:

In this workshop we will look at several ways that apps and instruction can be used to foster the creation of original student work and the sharing of their wonderful ideas. Young students have great ideas about the world around them. Their understandings often surpass their physical and verbal abilities to express them. Educators can leverage a variety of tools to support students in expressing their big ideas about science, social studies, and literacy. We will also explore ways that technology can support a learning community within and beyond the classroom. While there are many apps that support creative expression, we will consider instructional uses of Book Creator (ipad app and web-based for Chrome browser), Tellagami (ipad app), Lego StoryVisualizer (ipad, Android), and Blogging through Blogger or Kidblog.

This workshop will specifically address:

- The benefits and challenges of using writing & storytelling apps in the elementary setting
- Best practices for sharing resources to leverage technology integration in K-3 classrooms
- How technology literacy projects support student collaboration to critically think and solve problems
- Math, science, and literacy integration to create and share original expressions

Tech specifications: Our school uses a combination of windows machines, chromebooks, and ipads. The apps we will use in this workshop are primarily ipad or chromebook compatible.

Dates: March 9, 2018

Place: Capitol Plaza ~ Montpelier, VT

Cost: \$190 (lunch included)

Time: 8:30-3:30

Please inquire with Capital Plaza reservations (802-223-5252) about discounted hotel rates for the evening prior to this event.



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