

## SEPLA-CON18



### **An Introduction to STEM with Lego We Do 2.0 & Sphero Technology**

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This presentation will be a demonstration of how it can be possible to implement student learning in robotic technology with students with additional needs. This presentation will provide an example of how this program was implemented at The Ponds School, the successes we had and the challenges we overcame. There will be links to software downloads required to access these programs and a list of resources and costs. The presentation will include video and photographic evidence of the progression of learning for students.

Lego We Do 2.0 is a program designed to engage and motivate primary school students and captivate their interest in Science. The requirements of the program include The Lego pieces in a kit, included Bluetooth hub and an iPad or tablet device. The iPad or tablet must include the free WeDo2.0 application. Within the application users have access to the project outline, multimedia, building instructions and coding software.

Students learn to interact with the iPad to follow step-by-step instructions to build the project with the lego pieces, students may need help to position the pieces in place. Students with high support were assisted to push the piece into place with their index finger. They used switch software to request to turn the page of the instructions. Other learning outcomes included communication goals, and social support as we integrated two classes with a variety of physical and social needs.