

Rolling Into Technology – Toys That Teach



Emily Setford
2015 CEF Grant Recipient

Sphero SPRK

- ▶ The Sphero SPRK has arrived at Carroll Elementary School! This robotic ball is app enabled and controlled via Bluetooth technology.



The Sphero app is a game that challenges students to complete various tasks within a specified time frame.



Let's Play!



Lightning Lab

Students write their own programs in the Lightning Lab app. This app uses visual blocks that represent code so students can see how their program translates to physical movement of the Sphero. Students can control the speed, direction, and color of the Sphero robot. There are many more apps available for the Sphero, such as MacroLab, Draw N' Drive, and Chromo.



Press Play

Terrain Park Accessory



Press Play



Press Play

Grant Overview

- ▶ The lessons in the SRK program teach computer science, physics, and math concepts through play using Sphero, a robot ball. Students worked in pairs to write programs to control how the ball appears and moves. This project is about more than programming skills or playing with toys. The Carroll ISD mission is to encourage each student to reach his or her academic, extracurricular, and social potential. By fostering an environment of innovation and exploration we are helping each child to reach his or her own potential. Throughout this project, we are acknowledging the importance of innovation and affording our 21st century learners the incredible opportunity to use toys to develop critical life skills. Thank you for helping my students roll into technology with this grant.