Dash and Dot Lesson
Plan

Amount of time Demo takes: 3-4 mins.
Try this at home!

Materials
● Dash and Dot Robots
● Chargers and accessories
● iPhone, iPad, or iPod 5th gen

Set-up instructions
1. Make sure Dash and Dot are fully charged
2. Load the following apps onto device
   a. Go for Dash & Dot Robots
   b. Xylo for Dash Robot
   c. Blockly for Dash & Dot Robots
   d. Path for Dash robot

SAFETY! -- Safe demo

Lesson’s big idea
● Show the wonders of programing a robot with basic applications.

Background information
● These Robots are created by Wonder Workshop and work with the help of applications on Apple Devices.
● Each app is a building block towards learning how to program an actual robot.
● **FUN FACT:** The first program was written in the late 1940s, but was not implemented until 1998.
● Apps have been around since the early 2000s but were not used as much until smartphones came out in the late 2000s. The largest app store today belongs to Google Play with 1.6 billion Apps.
**Instructional Procedure**

1. Introduce and show how the different apps work with the robots
   a. Go for Dash & Dot Robots
      i. Basic controls for both Dash and Dot.
   b. Xylo for Dash Robot
      i. This app allows you to program a song for Dash to play on a Xylophone. You **MUST** calibrate Dash with the Xylophone before doing this.
   c. Blockly for Dash & Dot Robots
      i. With this you can program the robots using blocked ideas that you can layer to create your own autonomous motions. (After you create the program, hit the big dot on top of the head to start)
   d. Path for Dash robot
      i. Draw out a path for Dash to follow.

**Assessment/sample questions you can ask**

- How is it possible for someone to control the robots with just an application on a phone?

**Clean Up**

- Turn Robots off and place them and all accessories back into the respective boxes.

**References**

- www.makewonder.com