**EV3 Lesson Ideas**

**Lesson 6**

Materials: EV3 robots- 2 per robot, Core Competency Self Reflection resources and posters, colour sensor Video <https://www.youtube.com/watch?v=ye3MhVA9Rhs> (17min) or <https://www.youtube.com/watch?v=sE1xJ-t2IRw> (5min)

Objectives: Support students as they take their next steps in programing with the colour sensor.

Duration: 1hour

Lesson: Intro

* Get students back into their pairs and ask them to get their robot kits out.

**Activity**

* Next, show the video on colour sensor, 17min. or black line follower 5 min
* Get students to pull out their build books and attached the colour sensor.
* Once on, students are free to explore coding using the colour sensor (Green or black). Challenge one: Tape a straight line on the ground and a straight to curved line on the ground. Can they program to have their bots follow these?
* Once they have played around with the bot and coding movement and colour sensor give them another challenge.
  + Challenge two: Can you have your robot follow a green or black line using the colour sensor and then add in code using the touch sensor?

Give students the remaining time in class to apply these new skills. It takes longer to program using this new sensor.