**EV3 Lesson Ideas**

**Lesson 3**

Materials: EV3 robots- 2 per robot, Core Competency Self Reflection resources and posters, Touch Sensor Video: <https://youtu.be/DsxoIAB-sYk>

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

Duration: 1hour

Lesson: Intro

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

**Activity**

* We are going to get our robots to make a square if we did not do this last week, challenge, can you do this? Place tape on the floor to see if they can get it to stay on the square.
* Next, show the video on Touch Sensor Robot.
* Get students to pull out their build books and attached the touch sensor.
* Once on, students are free to explore coding using the touch sensor.
* Once they have played around with the bot and coding movement and touch give them a challenge.
	+ Challenge: Have your robot follow the tape pattern (straight, 90 degree right turn, straight, 90 degree left turn, straight, touch wall, reverse and stop).

Advanced: Students who are more advanced may build their bot to have the touch sensor. Then they may do the challenge and then can move over to the challenge mat that has many routes and obstacles. Leave it up to them to create a challenge and attempt it.