

Grade 7

Distance Learning Module 3: Week of: 4/13/2020-4/17/2020

Grade 7 CTE – *Modified from* - [Introduction to Robotics Engineering](#)

Targeted Goals from Stage 1: Various components, including sensors, of a robot can be altered to produce different results in movement and reaction.

Content Knowledge: Robots can have several different sensors that provide various functions to a robot's movements and purpose.

Vocabulary: sensors - distance, gyro, Touch LED, color, and bumper switch

Expectation: Students will be able to identify various sensors and their capabilities and purposes. Students will also be expected to apply this understanding to real-life examples of sensors in cars and other forms of technology.

Description of Task (s):	Resources and Materials:	Daily Checks
Monday: <ul style="list-style-type: none">● Distance sensor● Students will learn the purpose and functionality of the distance sensor.	<ul style="list-style-type: none">● Distance Sensor	Students will be asked to complete: <ul style="list-style-type: none">a. the VEX IQ Sensor worksheet by the end of the weekb. and “turn in” a Google Doc response paper.
Tuesday: <ul style="list-style-type: none">● Bumper Switch sensor● Students will learn the purpose and functionality of the bumper switch.	<ul style="list-style-type: none">● Bumper Switch	
Wednesday: <ul style="list-style-type: none">● Gyro sensor● Students will learn the purpose and functionality of the gyro sensor.	<ul style="list-style-type: none">● Gyro Sensor	
Thursday: <ul style="list-style-type: none">● Touch LED sensor● Students will learn the purpose and functionality of the Touch LED sensor.	<ul style="list-style-type: none">● Touch LED Sensor	
Friday: <ul style="list-style-type: none">● Color sensor● Students will learn the purpose and functionality of the color sensor.	<ul style="list-style-type: none">● Color Sensor	

Week criteria for success (attach student checklists or rubrics):

VEX IQ Unit I

VEX IQ Sensor Review

Supportive resources and tutorials for the week (plans for re-teaching):

VEX IQ Curriculum