

Grade 7

Distance Learning Module 2: Week of: 4/6/2020-4/9/2020

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

Targeted Goals from Stage 1: Desired Results

Robotics Engineering involves both design and programming components.

Content Knowledge: Robotics kits typically have a system to identify all their parts and uses.

Vocabulary: radio, gear, smart motor, shaft, beam, and specialty beam

Skills: Demonstrate how to sync the remote to achieve a wireless connection between the robot's brain and the remote.

Expectation: Students will demonstrate the parts/components within a VEX IQ kit.

| Description of Task (s): | Resources and Materials: | Daily Checks |
|--|--|---|
| Monday: <ul style="list-style-type: none">● Introduction to VEX IQ.<ul style="list-style-type: none">○ Clawbot | <ul style="list-style-type: none">● VEX Robotics Competition - Middle School● Meet the Bots● VEX IQ - Thriller Dance | <ul style="list-style-type: none">● Students will watch a series of videos introducing the VEX IQ kits.● Students will be expected to "turn in" a Google Doc response paper. |
| Tuesday: <ul style="list-style-type: none">● Continued introduction to VEX IQ - Clawbot.● Parts Worksheet | <ul style="list-style-type: none">● Student Handout - Kit Parts & Descriptions● Parts Worksheet | <ul style="list-style-type: none">● Students must submit the completed Parts worksheet via Google Classroom by the end of the week. |
| Wednesday: <ul style="list-style-type: none">● Learn about the capabilities of smart motors within the VEX IQ kit. | <ul style="list-style-type: none">● Introduction to the Smart Motors (Clawbot) | |
| Thursday: <ul style="list-style-type: none">● Learn how to sync the robot brain to the remote (tele-operated and radio) | <ul style="list-style-type: none">● Tele-Operated Clawbot - Instructions | |
| Friday: <ul style="list-style-type: none">● Good Friday | <ul style="list-style-type: none">● Good Friday | |

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

Parts worksheet

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

VEX IQ Curriculum