

# **A+** 7<sup>th</sup> Grade Robotics

## **During this rotation you'll learn the following:**

- How to navigate and perform several different tasks on a computer
- How to access online content and instruction
- How to calculate basic robot math
- How to participate with and work as a team
- How to construct a VEX-IQ robot
- How to create and download a robot program

## **Your grade will be based on:**

**Robot Challenges (virtual and physical): 60%**

**Quizzes: 20%**

**Participation (including teamwork): 20%**

## **Behavioral Expectations:**

**Since you'll be using equipment and software that is costly and needing care when handling, it is extremely important to behave in the following ways:**

- Be seated when the tardy bell rings until instructed to move otherwise.
- Be silent when instruction is being given by the teacher.
- Not listening to music unless given permission by the teacher.
- Not playing games other than those assigned by the teacher.
- Not touching other students, their workstations, or robot kits.
- Not touching other items within lab 104 other than your workstation and robot kit.
- **NEVER** running or jumping in lab 104.
- **ALWAYS** cleaning up work stations and robot kits thoroughly before dismissal.
- **ALWAYS** follow through with the teacher's directions and requests.

**If you fail to behave in any of these ways, a warning will be given and/or when necessary removal from Lab 104 will result.**

Please sign below that you understand and agree to behave in these ways so that our course will be able to run safely and smoothly this rotation and beyond.

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Student Name (printed)

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Student Name (signed)

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Parent/Guardian Name (printed)

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Parent/Guardian Name (signed)

Week 1 Course Expectations, Intro to Edmodo, Intro to Programming: Getting Started

Week 2 Introduction to Programming: Sensors

Week 3 Introduction to Programming: Program Flow

Week 4 Vex-IQ: Hardware Identification, Build Clawbot IQ

Week 5 Physical Challenges

Week 6 wrap-up challenges, Disassembly