



Inspiring students,  
one robot at a time.

# VEX U Basics

- Played on same VRC field
- Matches played as team vs team – each team with 2 robots
- One robot must start within 24” cube and the other a 15” cube
- 45 seconds for autonomous
- 75 seconds for driver control
- No limit on the number of robots per team but only two play in given match
- Dual enrolled students not eligible for drive team



# New Fabrication Rules

Teams are allowed to fabricate their own unique components from the following additional raw materials for each of their robots:

- An unlimited amount of non-shattering plastic from the following list: polycarbonate, acetal monopolymer (Delrin), acetal copolymer (Acetron GP), POM (acetal), ABS, PEEK, PET, HDPE, LDPE, Nylon (all grades), Polypropylene, FEP.
- An unlimited amount of composite materials, such as G10 (Garolite), FR-4, or carbon fiber.
- An unlimited number of plastic 3D printed parts.
- An unlimited amount of steel and aluminum



# Intent of New Fabrication Rule

To encourage use of milling, 3D printing, injection molding, etc.

**Note: Teams are not allowed to purchase products made from these techniques to use in building the robots.**



# Control System Rules

- All robots must use V5 controller and radio
- All robots must use V5 motors. No other motors allowed (not even other VEX motors)
- There is no limit on the number of V5 motors that can be used
- Pneumatics are still legal



# Questions?



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