

Legend:

Mini-Challenges (6 total) (Tournament days → *):

- Clawbots: sessions 1 to 2 (6/16, 6/18)
- Sumo Bots: sessions 2 to 3 (6/18, 6/20)
- Sprocket League: sessions 4 to 5 (6/23, 6/25,)
- Programming Day: session 6 (6/27)
- Maze: sessions 7 to 8 (6/30, 7/2)
- Ringmaster: sessions 9 to 12 (7/3, 7/7, 7/9, 7/11)

Lessons (10 total)

<u>Monday</u>	<u>Wednesday</u>	<u>Friday</u>
6/16 - Session 1 - Welcome (Icebreakers) Lesson 1: Introduction to Robotics Mini-Challenge #1: Build Protobots/Clawbots - Announce/form/finalize teams - Demo - VEX V5 Competition Robot	6/18 - Session 2 Lesson 2: Engineering Design Process - Finish Protobots/Clawbots* Mini-Challenge #2: Intro to Sumo Bots - Demo - CAD model	6/20 - Session 3 Lesson 3: Physics and Gears - Highlight troubleshooting - Continue Making Sumo Bots - Sumo Bots Tournament
6/23 - Session 4 Lesson 4: Designing a Robot Lesson 5: Translating Motion Mini-Challenge #3: Intro to Sprocket League - Demo Gearbox	6/25 - Session 5 - Continue Building - Sprocket League Tournament	6/27 - Session 6 - Demo Bracing - Finish Sprocket League Tournament Bracing (extra lesson) Lesson 6: Programming Basics Lesson 7: Sensors and Programming Logic Mini-Challenge #4: Intro to the Maze - Start Building
6/30 - Session 7 Building and programming for the Maze Challenge (driver practice if needed)	7/2 - Session 8 Lesson 8: Lifts Mini-Challenge #4.5: Racetrack - Building / Programming time - Racetrack Tournament - Demo - scissor lift	7/3 - Session 9 - Finish Racetrack Tournament Mini-Challenge #5: Intro to VEX IQ Ringmaster - Brainstorm ideas for Ringmaster Lesson 9: Building Hints and Tips - Ringmaster
7/7 - Session 10 Continue Building for Ringmaster	7/9 - Session 11 Lesson 10: Last Day of Building	7/11 - Session 12 Ringmaster Tournament

• Start Programming for Ringmaster	• Finish Building for Ringmaster • Finish Programming for Ringmaster	
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