COMMUNIQUE #9

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| **Course: Robotics** | **Instructor: Robert Vetter** |

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| **Week 33, Activities/Concepts: VEX Clawbots/Starstruck Competition** VEX EDR: The Can Cleanup Challenge. This challenge gives students the opportunity to test their robot and use the full range of its functionality. **Hardware: Continue to build your VEX clawbots. Prepare to modify the existing design for the VEX Starstruck competition.**  **Software: Upload the Clawbot code from Mr. Vetter’s computer. The old code was wiped out when we updated our software. Make sure you can control your robot with the joystick. Also, make your robot go wireless using two USB VEX sticks.**  **Suggested Home Study: Think, Create, Design, Sketch. Read corresponding material in your text book or find online resources that align with the topic at hand. Watch Robot “C” and Vex tutorials and videos.** |
| **Week 34 Activities/Concepts: VEX Clawbots/Starstruck Competition**  **Hardware: Continue to build your VEX clawbots. Prepare to modify the existing design for the VEX Starstruck competition.**  **Software: Upload the Clawbot code from Mr. Vetter’s computer. The old code was wiped out when we updated our software. Make sure you can control your robot with the joystick. Also, make your robot go wireless using two USB VEX sticks.**  **Continue to learn coding with Robot C and VEX. Build a VEX Clawbot Robot and program it to perform certain tasks autonomously. Help classmates build and trouble shoot their Clawbots until we have four functioning Clawbots. Research VEX forums and Youtube to search for answers for our robot related issues.**  **Suggested Home Study: Think, Create, Design, Sketch. Read corresponding material in your text book or find online resources that align with the topic at hand. Watch Robot “C” and Vex tutorials and videos.** |
| **Week 35 Activities/Concepts: VEX Clawbots/Starstruck Competition**  **Hardware: Continue to build your VEX clawbots. Prepare to modify the existing design for the VEX Starstruck competition.**  **Software: Upload the Clawbot code from Mr. Vetter’s computer. The old code was wiped out when we updated our software. Make sure you can control your robot with the joystick. Also, make your robot go wireless using two USB VEX sticks.**  **Learn the rules of the VEX 2016-2017 Competition Starstruck. Construct the playing field and begin redesigning the VEX Clawbot specifically for this competition. Form teams of two robots and begin practicing.**  **Suggested Home Study: Think, Create, Design, Sketch. Read corresponding material in your text book or find online resources that align with the topic at hand. Watch Robot “C” and Vex tutorials and videos. Watch VEX Starstruck competition videos.** |
| **Week 36 Activities/Concepts: VEX Clawbots/Starstruck Competition**  **PREPARE FOR EXPO!**  **Hardware: Continue to build your VEX clawbots. Prepare to modify the existing design for the VEX Starstruck competition.**  **Software: Upload the Clawbot code from Mr. Vetter’s computer. The old code was wiped out when we updated our software. Make sure you can control your robot with the joystick. Also, make your robot go wireless using two USB VEX sticks.**  **Continue redesigning the VEX Clawbot specifically for the VEX Starstruck competition. Design your robot so that it will functionally be able to move the jacks, move the giant square inflatable boxes, and hang from the frame at the end of the challenge for bonus points. Form teams of two robots and begin practicing.**    **Suggested Home Study: Think, Create, Design, Sketch. Read corresponding material in your text book or find online resources that align with the topic at hand. Watch Robot “C” and Vex tutorials and videos. Watch VEX Starstruck competition videos.** |