Name: Robert Lefrandt	Grading Quarter: 2	Week Beginning: 11/18/2024
School Year: 2024-25	Subject: Fab Lab/Engineering	

| Monday | Notes:
Robotic Assemblies Mechtronic

Engineer:
ReEngineer Reverse Engineering Structural Chassis frame body Mechanical (Motion)
Gear: Box, train, parallel (linear) stack (vertical), ratio, torque speed

Mechtronic

Electrical (Ohm's Law, Parallel/Serial Circuits) Chemical e-chem Physical Magnetism Batteries Software

Block
PLC ladder logic, CNC, Python, C++ Sensors touch, Dist Light, Camera | **Fab Lab/Engineering**

Objective:
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VersCAMM SP-300i 30" Eco-Solvent Injet PrinterCutter
• Teacher Print – …
Laser Engraving/Cutting: Cups, other….
3D Printing-
Competitions Prep: Robotics:

• VEX IQ: VEX IQ Dec. 13, 2024-Whiteriver Elementary

• Vex V5: Alchesay HS: ~~11/18/24, 11/16-18/24,~~ 1/11/2025

• FRC Team - 4H/Community – Room/Sponsor

Solar Go-kart: "Racing to the Sun" (Tuscon, AZ) 11/19 (Tues)

sarsef.org/racing-the-sun/

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Anissa Alvarado (anissa@sarsef.org)

• 2024

◦ **November 1** – Preliminary Project Plans Due

◦ **November 15** – Mechanical and Electrical Drafts Due

◦ 11/19 (Tues) **- *RTS Advisors visit FabLab**

◦ **11/22-RTS Submittal -Review11/26/2024**

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		◦ April 26 – Race Day	

Tuesday	Notes: Robotic Assemblies Mechtronic
	
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Wednesday			

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(Motion)
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