

VVDCS STEM Class Syllabus 2023-2024

Select Thursdays 1:15pm -2:30pm

Teacher: Mrs. Zammit

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Webpage:



Supply List:



In this class, students will be introduced to various concepts to increase and encourage STEM knowledge and curiosity. A number of STEM related careers will be explored. The students will have fun learning skills and participating in hands-on, upper elementary level projects and activities exposing them to technical fields like:

- Civil Engineering (designing / building structures)
- Mechanical Engineering (object movement / machines)
- Computer Science (coding / programming)
- Electrical Engineering (electricity / circuits / robots)

Date	Topics to Explore	Career to Explore
9/21/2023	Engineering Process	STEM Career Overview
10/5/2023	Forces, Loads	Civil Engineer
10/19/2023	Forces, Earthquakes	Architect
11/2/2023	Hydraulics, Levers	Precision Instrument & Equipment Repairer
11/16/2023	Potential & Kinetic Energy, Simple Machines	Automotive Engineer
11/30/2023	Complex Machine, Pulley, Lever, Gears	Physicist
12/14/2023	Engineering, Design, Forces, Geometry	Engineering Manager
1/11/2024	Flowcharts, Algorithms, Programming	Computer Software Engineer
1/25/2024	Robotics, Programming	Robotics Engineer
2/8/2024	Circuits, Electricity, Conductor, Insulator, Battery, LED	Electrical Engineering Technician
2/22/2024	Circuits, Electricity, Batteries	Electrical and Electronics Engineer
3/7/2024	Circuits, Electricity, Conductor, Insulator	Electrician
3/21/2024	Electricity, Magnetism, Vibration, Sound	Sound Engineering Technician
4/18/2024	Circuits, Forces	Aerospace Engineer
5/2/2024	Circuits, Forces, Breadboards, System Integration, Electrical Components	Aerospace Engineering & Operations Technician
5/16/2024	Circuits, 3D Printing, System Integration	CAD Technician

The schedule and topics for this class are subject to change as the year progresses.

Updated: Aug 26, 2023