Engineering Outreach
UNIVERSITY OF WATERLOO

STEMpowered (Odyssey)
Sneak Peek!

Apple, Bapple Brown Apples

How can we best preserve apples from browning? Become a food scientist and test which liquid best stops apples from browning!

BRING THE POWER!!!!! Campers will create circuits that are able to produce renewable energy!

Powering Up

Mal-Where?

How do the movie hackers do it? In this activity, campers will learn how keyloggers track keystrokes and how cybersecurity experts defend against hacking.

Explore how different medications travel through the body! Campers will gain an understanding of drug diffusion by making a prototype of a pill that diffuses slowly.

Drug Diffusion

7 Wonders of Waterloo

Welcome to the University of Waterloo! Take a map and discover the beauty of the university in this scavenger hunt!

Marvel Motors

Have you ever wanted to make your own motor? In this activity, campers will build their own electromagnetic motor, using household items!

Arduinos

Have you ever used an Arduino before? In this activity, you can turn a simple circuit into an intelligent machine! Build software and hardware skills through troubleshooting and iteration.

Design Competition

Plan, design, create! Campers will be given a problem to address in teams and then will pitch a design to solve that problem! Pitches will be judged and feedback given from current university students!

Includes sessions with mentors and current university students!
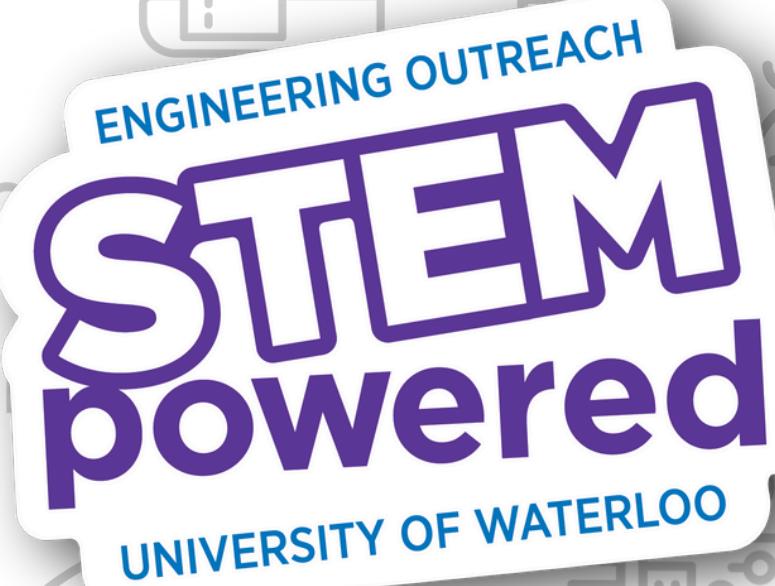
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