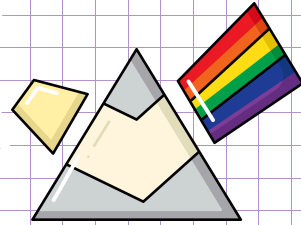


## Spectacular Spectroscopes

Did you know that light is hiding more colours than you can normally see? Campers will build their own spectroscope from simple materials and use it to reveal the full spectrum of visible light!

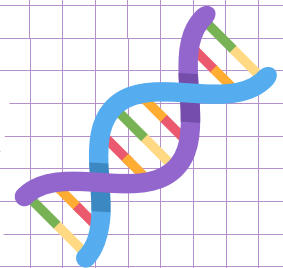


## Tremorous Transactions

Can your structure survive both an earthquake and a tricky budget? Campers will design and build an earthquake-resistant structure while navigating a microtransaction system that reveals the sneaky side of online spending!

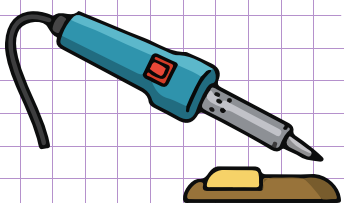
## Gene Beads

What if a device could remember your medication so you don't have to? Campers will step into the role of biomedical engineers and build their own automated pill dispenser!



## Hot Potato Switch

What if you could build your own game from the ground up, circuits and all? Campers will learn to solder and assemble their very own customizable circuit board game to take home!



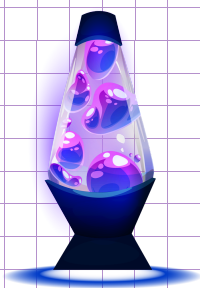
## Mentor

Real people, real stories! Campers will have the chance to meet and learn from a mentor in the community, getting an inside look at the exciting paths a love of learning can lead to.



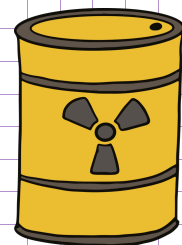
## Eruption in a Bottle

What do a lava lamp and a chemistry lab have in common? Campers will build their own glowing lava lamp and investigate how temperature and tablet size change the reaction happening right before their eyes!



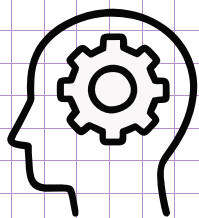
## Nuclear Escape

Can you stop a nuclear power plant from going into complete meltdown? Campers will work together to solve chemistry riddles in time before everything gets destroyed.



## Inside the Machine Mind

What does it actually take to build a machine that learns? Campers will step into the shoes of AI designers and explore how machine learning systems are trained and tested to make decisions!



## Marble Mania

Can you build a marble rollercoaster fast enough to win and strong enough to finish? Campers will race to collect materials and engineer a track where speed, energy, and design all come together!



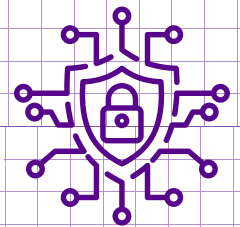
## 7 Wonders of Waterloo

Explore Waterloo's campus! Campers will trek across campus to discover the university's own architectural marvels, hidden buildings and unique spaces!



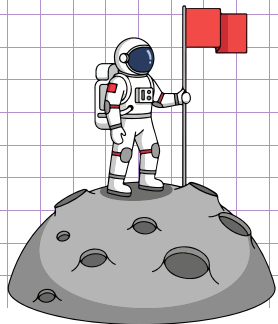
## Operation: Unbreakable

Every secret code has a story! Campers will trace the history of encryption from ancient ciphers all the way to quantum-proof security, uncovering how the battle between codemakers and codebreakers shapes the internet we rely on today!



## Voyager's Mission

What STEM topic would you want to teach the world? Campers will research a topic of their choice, create their own demonstration, and share their discoveries with the whole camp!



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