

BRIXOLOGY

Brixology Ultimate—more intricate

builds for the serious junior engineer!

Day 5 is an extra build that the campers and the instructor will decide on based on their experiences during the week.

TOWERS

Reach for the sky! Find out how **structural engineers** use ideas from physics to solve problems. Work together to build a structurally sound tower with a working elevator, then test and improve your design for strength and stability.

BOATS

Create a sea-worthy vessel as you set sail with **nautical engineering!** Build and test a boat powered by potential and kinetic energy. Then try changing specific variables to improve speed, buoyancy, and stability.

This fun filled 4 or 5 day camp provides these 4 builds and then your engineer gets to make them better!

VEHICLES

Get in gear as an **automotive engineer!** Build a motorized vehicle and learn how to optimize it. Use wheels, axles and gears to reduce friction and make it work better. Then shift things into a higher gear to get a hands-on understanding of transmissions and gear ratios.

MACHINES

Engineering is creative! Learn how gears, levers, and pulleys are useful tools for **mechanical engineers** then combine them with art and design to create and test a motorized drawing machine.



Brixology Fun-damental and Brixology Ultimate have different builds/problem solving. You do not have to take Fun-damental to take Ultimate.