

# BRIXOLOGY ELEMENTAL

Engineers question what is around us and make our world work. Work with a partner to build with LEGOs and then ask questions to find out how you can make it better. Brixology Elemental has days on Aerospace, Bridges, Boats, and Carnivals. In the 5 day camp, we will add an extra build! These are completely different builds than in the Brixology Ultimate Camp.

**Aerospace:** Launch your imagination to new heights as you explore aerospace engineering! Discover the secrets of working in space-efficiency and compact design. Create a trussed space station module, and then connect it with others to create a massive modular spacecraft. Take home: Astro Lander

**Carnivals:** Feel the thrill as you build a spinning swing ride! Learn about the forces and mechanical engineering concepts behind some of your favorite amusement park rides. Then improve and test the design to create an even wilder ride. Take home: Viking Ship Ride

**Bridges:** How can you build the strongest bridge? Work together with your fellow civil engineers to build and test different bridge designs. Then use what you've learned to create the strongest bridge possible. Take home: Truss Bridge

**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. Take home: Wave Rider

5 day camps will add on an extra build. The campers will work with partners to build their design. They will each get a take home at the end of the day that has to do with that day's theme. Unfortunately due to the high cost of rather involved LEGO® projects, they cannot take home the build that they do in class.

Please call us with any questions 801 292 8646