



BRIXOLOGY

Aerospace

Launch your imagination to new heights as you explore aerospace engineering! Discover the secrets of working in space: efficiency and compact, modular design. Create a modular spacecraft and then connect it with others to create a large LEGO® space station.

Boats

Embark on a journey of the imagination with nautical engineering! Stay afloat as you take note on the qualities of a great boat: buoyancy, stability and speed. Build watercraft out of LEGO® bricks and discover how to propel boats without sails.

Bridges

Dig-in and reinforce your imagination with civil engineering! Learn how shapes have different strengths and work as a team to test different bridge designs. Use what you learn to create the strongest LEGO® bridges.

Creatures

Leap out of your seat and locomotivate your imagination! Engage with nature's engineering secrets with biomimicry and biomechanics. Build a walking machine and improve it till it can climb the steepest of slopes.

Machines

Color the pallet of your imagination with the curri-fulcrum of mechanical engineering! Learn the mechanical advantages of gears, levels, wheels and axels. Combine simple machines with some art and design to build a motorized drawing-machine and create new possibilities.

Towers

Support the heights of your imagination through structural engineering! Find out how engineers solve construction problems with physics and collaborate with a team to build a stable tower, with working elevator, out of Lego bricks.

Each Class will have a Mad Science Project for the participants to take home.

