

PROBLEM SOLVING WITH LEGO®

Tuesdays, January 26-April 27 (no class Feb 16 or Apr 6: 12 weeks)

12:30pm-1:45pm

Ages 6-8

Using LEGO® challenges, students learn and practice math (without realizing it), develop logical reasoning and critical thinking skills, and work on solving individual and collaborative projects in new and creative ways. All lab costs are included in registration fee. Course enrollment is limited to 12 students.

Instructor: Corinne Zellie, BSc

Location: Science Center (suite 5)

Course fee: \$220 OR \$20/lab

10% sibling discount

LAB SCHEDULE:

Tower Building - Tuesday, January 26

Students build tall towers, use rulers to measure their dimensions, and determine the mass of their structure using a scientific balance.

Model Building - Tuesday, February 2

Kids practice their spatial awareness skills as they try to recreate LEGO® models from various bricks and flats.

Spinner Challenge - Tuesday, February 9

We explore force and motion as we design and improve LEGO® spinners to see which designs spin the longest.

Animal Bridges - Tuesday, February 23

Students design wildlife bridges over highways to create safe passageways for animals and keep them from getting injured crossing roads.

Balance Building - Tuesday, March 2

Today, we create contraptions that can determine the mass of LEGO® bricks.

Space Satellite Challenge - Tuesday, March 9

Our challenge is to build a mini-space satellite that can perform specific functions and collect certain data in space.

Secret Codes - Tuesday, March 16

Kids create their own secret codes using LEGO® and see if other are able to solve the word puzzles.

Marble Run - Tuesday, March 23

We design and create LEGO® mazes and challenge each other the get a marble from start to finish.

Brain Puzzle - Tuesday, March 30

Kids try to put LEGO® puzzles together, then create their own puzzles and challenge others to solve them.

Farm Challenges - Tuesday, April 13

Students are challenged to design and build fences and gardens of specific sizes to hold in their farm animals and grow food for them.

Vehicle Build - Tuesday, April 20

We create vehicles today, and measure the distance each one travels over different road surfaces.

Master Builder Challenges - Tuesday, April 27

Kids work together to design and build the structures needed in a city.