# FLORAL PARK STEAM ENRICHMENT

SCOPE EDUCATION SERVICES

## GRADE 3-4 BUILD & EXPLORE

**Session 1: Sensational Science Fall**

**Session 2: STEM Architecture & Engineering Challenge**

**Session 3: Chocolate STEM Engineering & Edible Science**

## GRADES 5 & 6 DESIGN & CODE

**Session 1: Short Circuit Robotics & Engineering**

**Session 2: Video Game Design & Artificial Intelligence Coding**

**Session 3: Rocketry & Retro Science**

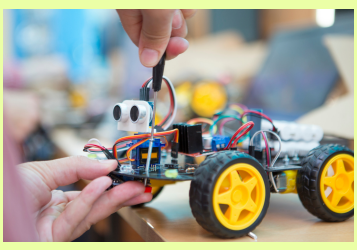
## Session Dates:

Session 1: Thursdays November 30, December 7, 14, & 21 2023
Session 2: Thursdays January 11, 18, 25, February 1, 8, 15, 2024
Session 3: Thursdays March 7, 14, 21, April 4, 11 and 18, 2024

## Program Details

- Each session is 6 weeks (except session 1). Students will sign up once for all sessions included.
- Free for invited students ONLY.
- All classes scheduled afterschool for 1.5 hours
- Registration at scopeonline.ce.eleyo.com
- Course descriptions on back.
- All program details can be found online.
- Info: bwestcott@scopeonline.us 631.881.9651


REGISTER HERE



# COURSE DESCRIPTIONS

## GRADES 3-4 Extreme STEAM & Science Exploration

**Sensational Science** Science is exploratory and exciting! It's about the "Aha!" moments in life, like when you figure out how something works or when you're amazed by the result of an awesome experiment. Activities may include crystal creations, making a glitter globe, chemical changes and making polymers. You will have the opportunity to learn about science through our interactive hands-on science activities that will be sure to spark your imagination!

**STEM Architecture & Engineering Challenge** Let the build competition begin! This hands-on class will include activities hat incorporate aspects of science, technology, engineering, art and math (STEAM). Students will engage in challenges of building bridges and structures during a build competition. Are you up for the challenge?

**Chocolate STEM Engineering & Edible Science**
In this amazing engineering course students will utilize design thinking strategies to learn design, engineering and architectural principles totally using chocolate. Students will design, create and build fascinating engineering structures out of chocolate such as homes, boats, bridges, skyscrapers and more! We promise this will be the most delicious and enlightening science class you'll ever take. If you love science and food, come join our journey as we learn about science by completing hands-on, interactive and completely edible science experiments. Each lesson will feature a core lesson in science/STEM and have an activity to create this science concept entirely with food. Come join us and learn about Science and then eat what you learned! We promise this will be the most delicious science class you'll ever take.

## GRADES 5-6 Coding & Engineering

**Short Circuit Robotics & Engineering**
Students will learn introduction to computer programming and robotics in this fun hands-on course. This course will focus on robotics building and programming. Children will work individually and in groups to program various robots, and learn the basics of design thinking, collaboration, and computer programming skills. We will also use devices to learn block based coding and create games, designs and programs.

**Video Game Design & Artificial Intelligence Coding** Students design their first app while learning both fundamental programming concepts and collaborative software development processes. Students will use our Sprite lab to create video game characters, challenges, and designs. They will also create simple programming challenges their characters need to accomplish. Artificial Intelligence Curriculum Students will learn how to manage a large set of data and program this data to help solve real world scenarios and problems. Join your friends as we learn about Artificial Intelligence, and how to program, design, and think creatively to get machines, computers and devices to help improve our society.

**Rocketry & Retro Science** What are lift, thrust and drag? These are just a few of the concepts explored in this class that features hands-on engineering of flight. Kids will gain insight into the scientific principles of flight during construction of planes and rocket launchers.

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