



## High School Program Options

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### **Bounce Bounce**

In this session, students will get a chance to play toy designer as they make a super bouncy ball out of a balloon and other materials. They will also learn about sports engineering, collision theory and product design in this bouncy program.

### **Cardboard Automata**

Students with a bent toward art and drama will love this program where the students will be challenged to design and build a shadow puppet and use it to tell a story. Students will also learn about gears, simple linkages and prototyping in this STE(A)M program.

### **Electronic Bling**

The students will be a high tech fashion designer as they make a light up fashion accessory. Students will learn about series and parallel circuits, wearable electronics and sewing in this fashionable program.

### **Engineer It**

In this program, students will be introduced to the engineering design process and work collaboratively to design a parachute to give a toy figure a safe landing. Students will learn also learn about forces, air pressure, gravity and drag while designing and creating.

### **Go Green**

Students will get in touch with ways to keep our planet healthy as they learn to identify different plastics and create upcycled art pieces. Students will also learn about chemical properties, recycling and how to save energy around the house.

### **Microscopic Marvels**

Students will delve into the world of life on a micro scale. Your students will use microscopes, discover the differences between plant and animal cells, make wet slides, and examine life in a drop of water, including protozoa and arthropods.

## **Super Sleuths**

Learn what its like to be a CSI scientist as students collect, observe and classify evidence. Learn about chemical changes, fingerprint techniques and observation skills in this super spy scientific program.

## **Squishy Circuits**

Students will let their creativity shine as they light up the room with electrifying play doh creatures. Students will learn about electricity, conductors and insulators as they create a creature of their own design.

## **Twirling in the Breeze**

Students will build a device to measure how fast the wind is blowing and learn about weather instruments in this session. Students will learn how to identity problems, brainstorm solutions and build their creations.

## **RoboLab**

Calling all future Robotics Engineers! Using Lego Mindstorms NXT ™, your students will participate in an interactive program as they learn real world techniques by programming their robot to move through an obstacle course.