



**Engineering for Kids**  
**S.T.E.M Enrichment Summer Camps**  
**At**  
**Essex County Environmental Center**  
**621 Eagle Rock Ave, Roseland NJ**  
**9:30am - 12:30pm\***

**Camp Kelvin**

**Week of: 7/11 - 7/15**

**Grades Pre K - K**

Pack your bags and lace up your hiking boots engineers, because at Camp Kelvin, we are engineering designs to help us explore the great outdoors. Build a virtual tent, design waterproof clothing, and engineer your own survival pack and more! Join us for a week of fun and adventure where everyone goes home a happy camper!

**Junior Robotics: Simple Machines**

**Week of 7/18 - 7/22**

**Grades Pre K - K**

In Junior Robotics: Simple Machines, students will use LEGO® WeDo construction and resource kits to create a new amusement park! Students will do everything from hanging the new sign to developing new rides. They will build a crane to help with signage, design a ferris wheel, create a pulley and gear ride and even design a rocket used to create the optimal ride.

**Scratch Game Design Space Pioneers**

**Week of 7/25 - 7/29**

**Grades 1 - 2**

Embark on fun journey to space with Scratch! Send an astronaut to the moon and defend your moon base from space rocks. Learn how to use Scratch software to create and program sprites, backdrops and basic scripts. Create a new program each day, leave with evidence of your wild space adventure, and be inspired to explore the universe of programming as a Space Pioneer.

**Junior Robotics: Simple Machines**

**Week of 8/1 - 8/5**

**Grades 1 - 2**

In Junior Robotics: Simple Machines, students will use LEGO® WeDo construction and resource kits to create a new amusement park! Students will do everything from hanging the new sign to developing new rides. They will build a crane to help with signage, design a ferris wheel, create a pulley and gear ride and even design a rocket used to create the optimal ride.

**How Amusing**

**Week of 8/8 - 8/12**

**Grades 3 - 4**

Ah, the thrill of an amusement park...zipping around on racecars, zooming through the loops of a rollercoaster, trying your luck at a floating boat game, and enjoying a cold, refreshing ice cream treat at the end of a hot, sticky day. Can't get better than that! During this camp, students will divide into competitive theme park teams. They will challenge other teams in specific engineering - related contests with the goal of creating the most fantastic and thrilling theme park experience. At the end of the week, only one team will emerge as the winner and will be granted the prestigious honor of creating the world's next great amusement park for children ages 0 -99 to enjoy for summers to come!

**Microsoft Kodu kart Racing**

**Week of 8/15 - 8/19**

**Grades 3 - 4**

Race to the finish and create your own racing game in Microsoft's Kodu gaming environment. From terrain design to enemy selection, students are placed at the wheel and given full control to design their own video game while exploring the foundations of coding. Kick your creativity in gear with Kodu Kart Racing.

\*All camps will run 9:30am - 12:30pm. Only those campers registered for Essex County Environmental Center Nature Summer camp should bring lunch, all campers please bring snacks. Fee: \$225 per child/per week. All classes are held in doors.

**For more information, call 973.964.7218. Register online before July 1st at**  
<https://www.iclassprov2.com/icpv2/parentportal/hudson/camps?camptype=19>