

STEM Enrichment Classes at Kensington Elementary

DISCOVER

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EXPLORE



Junior Mechanical Engineering

K - 2nd Grade

The Junior Mechanical Engineering Toys classes introduce our youngest engineers to fundamental concepts of energy, materials and movement. Students explore and construct six different toys throughout this unit, including spinners, magical boomerang cans, wind-up whirligigs and more.

Students will:

- ☐ Discuss the role mechanical engineers play in toy design creation
- ☐ Understand that a spinning object uses momentum, which keeps it moving
- ☐ Learn that a wind-up toy uses kinetic and potential energy
 - ☐ Demonstrate that vibration can sometimes cause

COST: \$119 /student

Like us at www.facebook.com/EFKCharlotte

DATE: Wednesdays Oct 4th — Nov 8th six classes total

TIME: 2:15—3:15 pm

REGISTER NOW—spacing is limited

EngineeringForKids.net/Charlotte
Charlotte@EngineeringForKids.com

704.750.5335

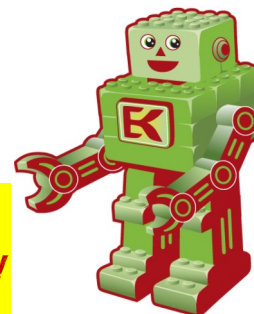
Apprentice Mechanical Engineering

3rd - 6th Grade

During the Mechanical Engineering class, students use the Engineering Design Process to design, create, test and improve a variety of machines and mechanical systems. Students learn basics of energy, traction, aerodynamics and durability while constructing roller coasters, eggstreme defense vehicles, Catapults and custom dragster.

Students will:

- ☐ Utilize friction to control rate of travel
- ☐ Analyze ideal angles to achieve the ideal rate of travel
- ☐ Construct a free body diagram from the known forces
- ☐ Understand how the physics of velocity,



*Invite Kelvin to
your birthday party!*