



Welcome back (or welcome!), PCY Families! Because students learn best – and their curiosity is piqued – when they see science in action, PCY’s STEAM Program emphasizes hands-on experience and practical application. We bring science to life. Below are this year’s offerings. You are encouraged to participate in as many as your schedule will allow.

Science Night Out: During Science Night Out talks, speakers discuss the role science plays in their professional lives. Some have a clear tie-in and others are surprising. Previous speakers have included a CSI and firefighters, doctors, leaders in 3D printing and augmented reality, and more. Science Night Out begins at 5:30pm in front of the MPR with pizza and a science-related activity. At 6pm, we move to the MPR for the talk (40-45 minutes, including Q&A). All programs are *free*, and no RSVP is necessary:

- **Thursday, September 13, 2018**
- **Thursday, November 15, 2018**
- **Thursday, February 28, 2019**

Open Robotics Nights: Open Robotics Nights offer an opportunity for parents and students alike to build and code at their own pace according to a set of instructions or to explore their creative side and build from their imagination, all while our experienced Robotics instructors are on hand for questions and extra help. The series was such a big hit that we were asked to continue offering them this year. All programs are *free*, and no RSVP is necessary. Whether you’re a novice or a pro, join us on the following dates from 5:30-7:30pm in the MPR:

- **August 30, 2018**
- **October 11, 2018**
- **December 6, 2018**

STEAM Activity Nights: Because kids learn by doing, our STEAM Activity Nights offer meaningful opportunities for students to get hands-on science as they make their way through a variety of stations. Past themes have included the science of sound, experimenting with physics by building roller coasters, and a sampling of engineering disciplines. Pizza is served at 5:30pm and STEAM Activity Nights from 6-7pm in the MPR. All programs are *free*, and no RSVP is necessary. Bring the kids out for some fun, hands-on learning on:

- **January 17, 2019**
- **March 21, 2019**

Lego Building Club and Robotics: Our after-school Robotics classes are back! Kinder through 2nd graders can take Lego Building on select **Fridays**. 2nd and 3rd graders will have Robotics on **Tuesdays between October 16 - December 11** (no class Thanksgiving week); 4th through 6th graders will have Robotics on **Tuesdays between January 15 and March 5**. Parents are required to volunteer during class sessions. *Register on the PCY PTA website.*

Extracurricular Science & Arts Field Trips: Textbook and classroom learning is enhanced through outside experiences. In addition to our evening and after-school offerings, we have curated group events designed to bring science, technology, engineering, the arts, and math to the forefront. In previous years, we’ve toured the Caltech Seismic Lab, Pasadena’s Gamble House, and the Los Angeles Police Museum, carved ceramic pumpkins, learned about hybrid vehicle technology at the Toyota Automobile Museum, felt the effects of friction while “skydiving” at iFly, cruised the coast while learning about whale migration from an onboard naturalist, viewed special exhibits at the California Science Center and attended performances at Caltech, USC and Disney Concert Hall. This year’s lineup includes a special Halloween-themed kiln class, a unique physics performance at Caltech and – by popular demand – a glass fusion class to make platters. *Please watch your PCY PTA emails for additional information. Field trips will also be cross-posted on the PCY STEAM page on Facebook.*

Know of some great local STEAM programs for kids or families? Do you have any questions or concerns? Contact PCY’s STEAM Chair, Nina Ries, at nina.ries@gmail.com.