Edgerton Explorations
Warning: Strobe lighting is used in darkened conditions. Adults/children prone to epileptic seizures should inform instructor.
An Edgerton Center classic, this activity introduces students to the technology of strobe photography. Students first watch a ten minute video on Doc and then explore spinning disks, photograph multiflash images of high speed events, and take part in high speed video experiments. A visit to the Edgerton exhibit at the MIT Museum ($5 per student) rounds out the day.

Other Activities

CSI: MIT (5th grade and up, independent readers only)
Crime Scene Investigation: MIT presents an introduction to forensics with the unsolved case of an MIT "hack" - a fun, harmless practical joke performed by MIT students. Students will use blood typing, fingerprinting, chromatography, and microscope examination of hair and fiber samples to analyze clues found at the crime scene and determine the culprit.
Maximum of 16 participants

Grungy Groundwater 10+ yrs
Groups of students observe how water and "contaminants" (water tracing dyes) flow through different soils. A model of a groundwater system is used to demonstrate how water contamination moves through an aquifer. Students consider the implications of the pollutant from the point of view of town leaders, scientists, and citizens. (ages 10 and up)

LEGO® Chemistry 11 yrs
LEGO Chemistry is an introduction to chemistry in two parts. During the first portion, the wet lab, students learn proper lab technique as they observe chemicals throughout a chemical reaction. After a review of some scientific terms, we finish the program by revisiting the reaction using LEGO bricks to model the elements. (ages 11 and up)

Directions to the Edgerton Center
From 77 Massachusetts Avenue:
Enter the main building at the crosswalk, pass through the Main Lobby (Lobby 7), and enter the Infinite Corridor.
This hallway leads through several buildings (7,3,10), which you can distinguish by looking at door numbers. Just past Lobby 10, and a room full of green couches is Building 4, and another staircase on the right. Take these stairs! Climb to the 4th floor, and turn right. This is the Edgerton Center. Room 4-402 is our classroom, on your right.

From Kendall Square T stop:
When you exit the T stop, walk down Main Street toward the flags (and away from the Charles River). Keep walking with the COOP on your right until you reach Ames St.
Turn left onto Ames St., and walk until you reach the "pointy, triangular" tip of the Ralph Landau Building (MIT Building 66). Walk around the point and keep this building on your right (if it's raining you can walk inside this building). Go straight, hugging the buildings that are on your right.
When you can go no further without running into Building 8 in front of you, go up the stairs that are slightly to the left and through the wooden doors. The Infinite Corridor is straight ahead; go straight until you see a set of stairs off to your left. Climb these stairs to the 4th floor. Circle around to the left until you see a hallway full of wooden cabinets and photos. This is the Edgerton Center. Walk down the hall until you see room 4-402 on the left.

Edgerton Center Outreach Program
Massachusetts Institute of Technology
77 Massachusetts Avenue, Room 4-405
Cambridge, MA  02139-4307
617-253-7931

2018-2019 Field Trip Programs
Hands-On Science & Engineering Programs for Upper Elementary - Middle School Groups

http://edgerton.mit.edu/outreach

Optics & Photography

Laser Mazes
Teams of students are challenged to direct a laser beam through a wooden maze using mirrors. Students begin by experimenting with using mirrors to hit a bullseye with laser light. They review concepts of angles and hypothesize about how light reflects from a surface. Students determine that the angle of incidence is equal to the angle of reflection. Using this knowledge, students first model with protractors and then implement the path of the laser light through the different mazes. (ages 11 and up)

Observe an exciting chemical reaction
The Outreach Program is a component of the Edgerton Center’s operations. Program introduces a variety of science and engineering strands through hands-on lessons which require approximately 3 hours to run (includes 30 minute break for lunch).

Only one lesson can be booked per day.

Register on-line at:
http://edgerton.mit.edu/outreach

- Programs are arranged for groups only (12-24 students).
- Classes are available during public school hours only. (No afterschool/ weekend hours available.)
- All students must meet minimum age requirements.
- The content of classes does not change from year to year. We regret that we cannot offer lessons to students a second time.
- Metered parking is limited. Parking permits can be purchased in advance, $29/vehicle, best at time of booking as spaces are at a premium.
- Programs are available free of charge.

Contact: Amy Fitzgerald at amyfitz@mit.edu or 617.253.7931