



IMAGING PARTNERSHIP

Exploring Education Through Imaging

Afterschool Workshop Fun Applied Engineering - Sessions Overview

The emphasis is on practical hands-on learning, designed to give a better understanding of how the exciting world of engineering works and how photography (optics) plays a role. The course demonstrates to pupils how they can easily improve their images by following some basic principles. The approach will be informal and fun.

Breakdown of Lessons for the 6 week workshops:

Week 1: I'm Under a Lot of Stress Here! (Designing mini structures and photographing them)

Structural engineers and other scientists are always trying to find ways to make structures lighter and stronger.

Week 2: Fun with the Sun (Reportage Photography)

The Sun gives off a great deal of energy in the ultraviolet (UV) range of the EM spectrum.

Week 3: Hit the Target (Architectural Photography, Reportage, Documentary)

This is the culminating activity, requiring students to use all the practiced skills from the previous activities.

Week 4: Three Lasers Converging at a Focal Point: A Demonstration

In this activity, students will see how we can use the property of refraction to focus parallel rays of light.

Week 5: Laser Light: An Activity

This simple activity will help students visualize the difference between laser light and normal light.

Week 6: Multiple Reflections

Pupils practicing that when light reflects off a plane mirror, the image appears left/right reversed.