



SCIENCE & ENGINEERING

# Innovation is Everywhere! Big Learning Science & Engineering: S&E



## The Physics of Color and Light

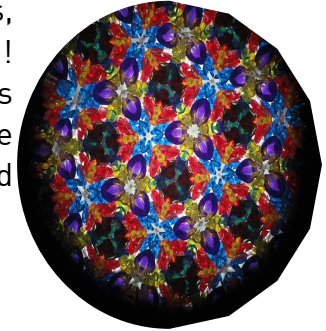
**Fall Session Starts October 2018!**



**Optrix:** Discover the world of color and light with playful experiments and a couple of tricks along the way! Examine the effect of light on pupils and explore the eye adaptations of nocturnal animals. Use prisms to explore colors and wave lengths. Compare light colors to pigments and explore symmetry and reflection with multiple mirrors and crystals. Test the refractive powers of water and gelatin; explore convex and concave mirrors and magnification; and learn about the 'persistence of vision' that explains many common visual effects. (Grades K-2)



**Kaleidoscope:** Beam into the future and experiment with fiber optics! Children will make a model of their eye and test the limits of their own sight to learn about blind spots, peripheral vision, and right/left dominance. They will see how the eye looks up close by dissecting a real cow's eye and learn how light and color are used to create 3D movies, microscopes, and sunglasses! Experiment with mirrors and lenses to illustrate reflection, symmetry, and refraction. (Grades 3-5)

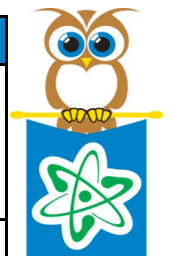


Register and pay online at [www.biglearning.org/science](http://www.biglearning.org/science) by September 24th to receive our early bird special of \$10 off for each S&E class!

### Barnsley Fall S&E Offerings



Program	Day	Dates	Time	Fee
<b>Optrix, grades K-2</b>	Tuesday	10/2, 10/9, 10/16, 10/23, 10/30, 11/20, 11/27, 12/4	4:00– 5:00 PM	\$159
<b>Kaleidoscope, grades 3-5</b>	Tuesday	10/2, 10/9, 10/16, 10/23, 10/30, 11/20, 11/27, 12/4	4:00– 5:00 PM	\$159



For more information, please contact your PTA coordinator today! →

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