

**The experience  
is virtual.  
The learning  
is real.**

## **Grades 4-12**

Unable to visit the Louisville Science Center in person? Bring us into your classroom through a live video-conference link! Programs include a kit with pre-lab and post-lab activities, as well as suggestions for expanding the learning experience.

*Cost: In-state: \$125.00 per program / Out of State: \$200.00 per program*

*Length: 60 minutes*

### **Chemistry Roots**

From soap making to distillation, fried chicken to coal, explore Kentucky's rich heritage of industry through hands-on chemistry.

### **Living and Working In Space**

What kind of physical and mental training do astronauts undergo before blastoff? What are the challenges of working and living in space and how do they overcome them? Learn about the International Space Station while training to be an astronaut.

### **Transmission Tracker**

Someone in your class has a deadly disease! Watch it spread and follow its path. Use the tools of an epidemiologist to solve the mystery. Investigate how epidemics are spread and learn how to protect yourself.

### **The Force Is Right**

Students learn about the physics of building bridges, skyscrapers, houses, and sculptures as they explore balance, tension, compression and flexion forces. Then, students use their new engineering skills to build hands-on models and test their structural integrity.

### **Wave Watch**

Get ready to catch a wave! Discover the waves around you – light waves, sound waves, water waves, infrared waves and electromagnetic waves – while exploring the scientific properties of each.

### **Physics Rules**

Why do curvy roads have lower speed limits than straight roads? Do rain and ice affect road friction? Discover how Newton's three laws of motion have shaped traffic laws.