INTERACTIVE CLASSES

So much to learn, you're going to need a bigger cranium.

Interactive classes challenge students to think more deeply about science with engaging, hands-on lessons and activities. Many complement our exhibits and films. Class content is adjusted for grade appropriateness.

Cost: $2.50 per student (10 student minimum)
Length: 40 minutes
Note: Classes sold as add-on programs only. Exhibit or IMAX purchase required.

Grades Pre-K – 1

Creepy Crawly Science

Eek! Your students will bug out in this class all about the cool side of creepy crawly creatures. They'll have hair-raising fun as they examine exotic insects and learn how they move and grow.

Little Scientists

Give your young Einsteins their first lab experience! Let your students play scientist with test tubes and beakers. Designed to introduce early learners to experiments, this class is sure to spark the curiosity of your students.

Should You Eat It?

What does it mean to eat the colors of the rainbow? Students will discover the role diet plays in the growth of healthy bodies and determine what makes up a well-balanced diet. Good nutrition and healthy habits are stressed.

Grades Pre-K – 4

Animal Antics

Go wild at the Science Center! Designed to build upon the IMAX film *Animalopolis,* catch a glimpse of nature's most hilarious creatures sporting their wildest behavior when you seek out animals and their habitats in a fun-filled interactive expedition through our exhibits. Activities are teacher/chaperone led.

[SUPER-SCIENCE IT] Book the film *Animalopolis* for a great start to your expedition!

Grades 2 – 5

What's the Matter?

Your students will have a solid good time as they experiment with extreme cold and hot temperatures to alter the three states of matter. They'll turn solids into gas, learn how water evaporates, and much more in this mind-expanding class.

Zap!

Students will buzz with excitement as they explore the shocking world of electricity and magnetism and discover the truth about the nature of electrons and why magnets attract.

Rate Your Heart

Introduce your students to cardiovascular health, healthy lifestyles and the importance of exercise when they test their heart rates to determine what makes their tickers tick.

Sands of Time

Deserts are more than just rolling hills of sand! Explore the attributes of these unique ecosystems and learn the difference between the dunes of Arabia and the beaches of Florida. Discover different compositions and colors of sand as explained through geological processes.

[SUPER-SCIENCE IT] Add the IMAX film *Arabia* to catch a glimpse of exotic deserts with your own eyes!

Mummy Math

Explore mathematics and science techniques from ancient Egypt. Add it up! Egyptians are the "square root" of many modern-day marvels. Solve equations of the past using the same math that will carry us into the future.

Grades 2 – 8

Pollution Solution

Examine water for environmental health hazards and experiment with different ways to clean up our water sources when pollution takes over. Help find a solution for all this pollution!

[SUPER-SCIENCE IT] Book a visit to the Frazier International History Museum to celebrate Louisville Water Company's 150th Anniversary!

Tunneling for Water!

Rocks, sand and pre-historic water! It's a first of its kind project in the world. Louisville Water Company has built a tunnel to collect ground water for drinking water. Learn the science behind the project and experiment with the materials found deep in the ground.

Light Bright

We will leave the light on for you! Using retro style toys and stylish diffraction glasses, your class will deconstruct light into what isn't typically seen. Students will discuss light waves and the electromagnetic spectrum.

[SUPER-SCIENCE IT] This class is an excellent complement to the KaLightoscope exhibit at the Galt House, open November 18, 2010 – January 3, 2011. Contact Mary Alice Greenamyer at 502-589-5200 or magreenamyer@galthotel.com, or check out KaLightoscope.com for more information.

Molecules Revealed

Before braving into NanoSpace with *Molecules to the MAX!*, explore nano scale with a member of the Science Center's Education team. Through a series of hands-on demonstrations, your students will have a better grasp of the world that's smaller than a cell but larger than an atom.

[SUPER-SCIENCE IT] Be sure to visit NanoSpace with Oxy and her crew in the animated film *Molecules to the MAX!*

Grades 6 – 8

Protect Yourself

Test and expand your knowledge of the reproductive system, STDs and HIV. Learn about methods of transmission, symptoms and treatments. Older students will discuss methods of "safer" sex and ways to keep themselves healthy. Abstinence is stressed. Content will be adjusted for age appropriateness.

Sizzling Science

You're doing science each time you lift a measuring cup in the kitchen! Proper measurements can lead to proper portion sizes, and proper portion sizes can lead to healthier meals and a healthier lifestyle. Join us as we discuss the science of cooking and how the food choices we make can have a profound impact on our bodies. Through chemistry demonstrations we'll boil down complex scientific principles into easy to digest pieces of information.

The History of Science

Travel back in time and explore scientific breakthroughs throughout the ages. With the help of the Scientific Method uncover some of the biggest discoveries in Western, Eastern, and Middle Eastern traditions.

[SUPER-SCIENCE IT] Add the IMAX film *Arabia* to discover more ancient mysteries.

Grades 9 – 12

Science Fact vs. Science Fiction

How often have you seen starships explode in a hail of laser beam fire? What about time machines altering the future through actions in the past? Using clips from popular television and movies, we'll explore the feasibility of many components to science fiction and discuss how today's fantasies may become tomorrow's inventions.

[SUPER-SCIENCE IT] Boldly go where no class has gone before by adding a visit to *Star Trek: The Exhibition* or the IMAX film *Hubble*.

Larger Than an Atom, Smaller Than a Cell

Through a series of hands-on nano kits, your students can experience a variety of applications of nanotechnology. Watch as the surface tension in a cup of water prevents it from pouring or notice how scent particles can pass through the skin of an inflated balloon. From stain resistant pants to magnets, nanotechnology is everywhere, although it's too small to see!

[SUPER-SCIENCE IT] Take on small science of your own by adding the *University of Louisville Nano Tour.*