

LIBERTY SCIENCE CENTER FREE VIRTUAL STEM EDUCATION PROGRAMMING JUNE 2020



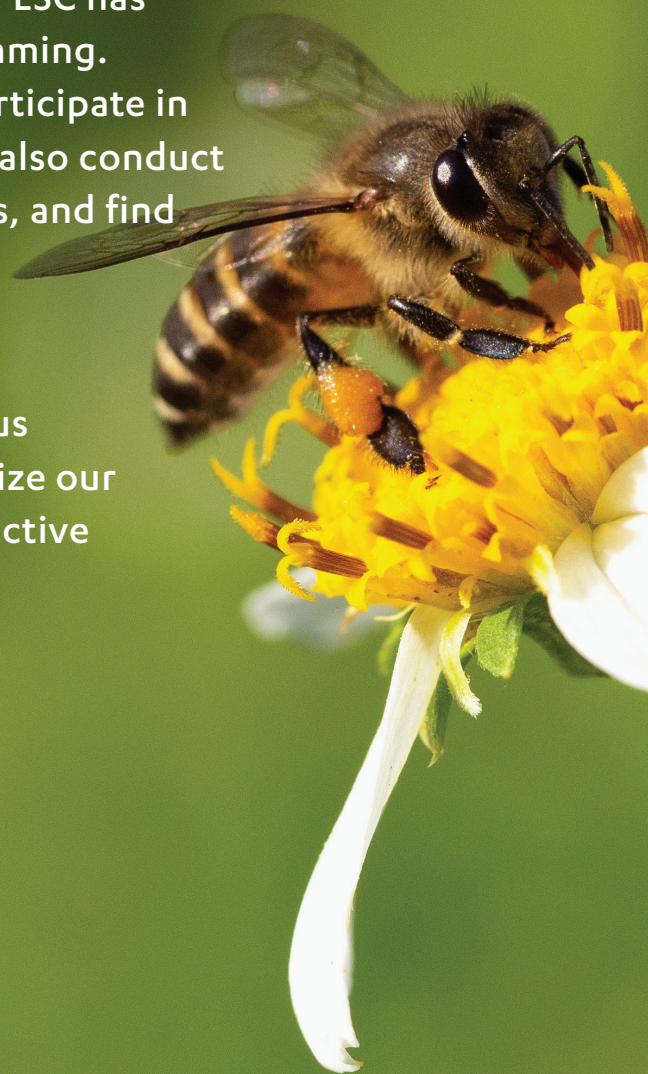
During these unprecedented times, Liberty Science Center is more committed than ever to our mission of inspiring and preparing the next generation of scientists and engineers. As educators and students across the world adjust to remote learning, LSC is offering free of charge a suite of high-quality, accessible, live programming.

To meet the needs of educators who want access to no-cost programs for students and themselves, LSC has developed this schedule of free virtual programming. Each week school groups and educators can participate in programs daily using the links below. They can also conduct experiments, explore the world of LSC's animals, and find amazing movies anytime on [LSC in the House](https://lsc.org/lscinthehouse) ([LSC.org/lscinthehouse](https://lsc.org/lscinthehouse)).

Private courses are available for a fee. Contact us today to learn more about how LSC can customize our offerings to provide a more in-depth and interactive virtual experience for your students.

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FREE VIRTUAL STEM EDUCATION PROGRAMMING

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GRADES PRE-K - 2

6/1/2020

11:30 AM

LSC JUNIOR: SLIMY TIME

Investigate chemical and physical changes by learning how to make various types of slime.

 20 Minutes


No registration required. Streaming live to the public on fb.com/libertysciencecenter

6/3/2020

11:00 AM

FLOW MOTION

From puddles to clouds and rain to snow, water is changing its form around us all the time. Help us conduct different experiments to see evaporation, condensation, and precipitation right before our eyes.

 20-30 Minutes

Advance registration required.


https://fieldtripzoom.zoom.us/meeting/register/tJUtceGqrjwrG9S1y4_DPp6_mYwVdBDZAjvq

6/8/2020

11:30 AM

LSC JUNIOR: STEM STORYTIME: WATER DANCE

As we continue to investigate and conduct science from home, wonderful new topics to explore can often be found in our favorite storybooks. Join us for a live read aloud of Thomas Locke's *Water Dance*. Be ready to make your guess about what our water has transformed into as we talk all about the water cycle.

 20 Minutes


No registration required. Streaming live to the public on fb.com/libertysciencecenter

6/10/2020

11:00 AM

LIGHT IT UP

Plan and conduct investigations using flashlights and light boxes to focus on what it means for objects to be transparent, opaque, translucent, and reflective.

 20-30 Minutes

Advance registration required.

https://fieldtripzoom.zoom.us/meeting/register/tJUusde2sqjkuGNdBkjjArD5E56W_3tpT0VJp



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6/15/2020

11:30 AM

LSC JUNIOR: SUPER STRONG SHAPES

We'll use a variety of simple materials from home to build and test our favorite three dimensional shapes. Which shapes are not only strong but... super strong? We'll uncover how nature holds a special clue for us in this hands-on exploration.

 20 Minutes

No registration required. Streaming live to the public on fb.com/libertysciencecenter

6/17/2020

11:00 AM

SKELETON INSIDE ME

Why do we have bones? What are they made of? How is their structure related to their function? Discover these answers and many more as we learn about bones in the story *The Skeleton Inside You*, by Philip Balestrino. After reading our story, craft your own "broken bone" and mend it with a cast.

 20 - 30 Minutes

Advance registration required.


https://fieldtripzoom.zoom.us/meeting/register/tJwrcO6rqTsvGdy167NBydbPO8p7O3-N_g_7

6/22/2020

11:30 AM

LSC JUNIOR: STEM STORYTIME: EYES, NOSES, FINGERS, TOES

As we continue to investigate and conduct science from home, wonderful new topics to explore can often be found in our favorite storybooks. Join us for a live read aloud of Judy Hindley's *Eyes, Nose, Fingers, and Toes*. Be ready to talk all about our senses and the human body and try a simple experiment to explore our senses at home.

 20 Minutes

No registration required. Streaming live to the public on fb.com/libertysciencecenter

6/29/2020

11:30 AM

LSC JUNIOR: SUN, MOON AND STARS




A virtual planetarium show that provides an introduction to the night sky for young learners.

 20 Minutes

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GRADES 3 - 5

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SLIMY TIME

Investigate chemical and physical changes by learning how to make various types of slime.

 20 Minutes

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6/3/2020

1:00 PM

FORCE AND MOTION

Become a scientist and use some unlikely tools to investigate the science behind Force and Motion.

 20 - 30 Minutes

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https://fieldtripzoom.zoom.us/meeting/register/tJcsdOioqT4pH9wpwUchnZHljSrBbC_Clpsa

6/4/2020

1:00 PM

PLANETARIUM ONLINE: RETURN TO THE MOON

Long after astronauts last visited the moon in 1972, plans are afoot for a return. We'll explore goals for a new mission to our nearest neighbor in space.

 30 Minutes

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6/11/2020

1:00 PM

PLANETARIUM ONLINE: GALAXIES

We'll view our own Milky Way as seen away from bright city lights. We'll explore the mind-expanding discovery in the 1920s that we live in a universe full of galaxies. And we'll journey to some of the most fascinating galaxies, from our neighboring Andromeda galaxy to galaxies in the far end of the universe.

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6/18/2020

1:00 PM

PLANETARIUM ONLINE: ASTEROID IMPACT

From giant craters in plain sight to the extinction of the dinosaurs, asteroids have had a huge impact on planet Earth. We'll explore asteroids and what we're doing to monitor and ward off future dangers from the sky.

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6/25/2020

1:00 PM

PLANETARIUM ONLINE: JUPITER, SATURN AND JULY SKY PREVIEW

This show celebrates the return of two of everyone's favorite planets to the evening sky at the end of June! Find out how to spot them in the July sky, and explore these giants, their moons and their rings as NASA sees them.

 30 Minutes

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7/2/2020

1:00 PM

PLANETARIUM ONLINE: SPACE NEWS NOW!

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GRADES 6 - 8

6/2/2020

1:00 PM

LIVE FROM SURGERY: EXPLORE ROBOTIC SURGERY AND MEET THE SURGEON

Learn about the engineering and design process behind the DaVinci Robotic Surgical System, and hear a urological surgeon talk about their real-life experiences using it in the operating room.

 30 Minutes

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6/9/2020

1:00 PM

LIVE FROM SURGERY: WATCH A HEART TRANSPLANT AND MEET THE SURGEON

Hear a heart transplant surgeon talk about their real-life experiences in the operating room, and learn about heart transplants, heart failure, organ donors, and mechanical heart surgeries that save thousands of people a year.

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6/10/2020

1:00 PM

ACIDS AND BASES

Learn the power of hydrogen! Explore the important chemistry concept of acids and bases by using everyday household products.

 20-30 Minutes

Advance registration required.

<https://fieldtripzoom.zoom.us/meeting/register/tJEIcOqtqDMuHd34b1lpsvsFytdKTOR31CAg>

6/11/2020

1:00 PM

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6/16/2020

1:00 PM

LIVE FROM SURGERY: VIRTUAL CAREER DAY




Whether you're a student or a career-changer, find out about the wide range of opportunities in the medical field.

 30 Minutes

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THE SCIENCE OF LIGHT AND PHOTOGRAPHY

Learn about the science of photography through the ages! See how light travels through lenses, understand how artists use and manipulate light to capture images in photographs, and find out how photography connects chemistry and engineering.

 20 Minutes

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1:00 PM

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6/30/2020

1:00 PM

LIVE FROM SURGERY: EXTRACT DNA AT HOME

Get an intro to genetics and even extract DNA yourself—from a strawberry!

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7/2/2020

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GRADES 9 - 12

6/2/2020

1:00 PM

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PROFESSIONAL DEVELOPMENT

6/11/2020

3:00 PM

MAKING STEM MODELS IN EARLY CHILDHOOD

Find out how to help your students make and use meaningful models, even on a minimal budget. Hands-on models enhance learning and provide opportunities for informal assessment.

Educators of Grades Pre-K - 2

 30 Minutes

Advance registration required.

<https://forms.gle/UweGyzh8n8UCjm5B8>

6/18/2020

3:00 PM

PHENOMENA-BASED SCIENCE LEARNING

Natural phenomena are an important part of NGSS and a great way to engage students in STEM explanations and problem-solving. We'll explore sample science phenomena around the properties of water, and we'll discuss strategies for using them effectively.

Educators of Grades 3 - 8

 30 Minutes

Advance registration required.

<https://forms.gle/2FSoi1M1Z4F3UjYm9>



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