



GREAT LAKES  
Science Center  
Stay Curious.

# EDUCATOR GUIDE

2020 - 2021 Academic Year

*Safely engage your students in unique experiences from Northeast Ohio's STEM HQ*

## VIRTUAL FIELD TRIPS HANDS-ON WORKSHOPS

For more information:  
visit [GreatScience.com](https://www.GreatScience.com),  
or call 216.621.2400

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# WELCOME

## **Dear Educator,**

We understand that the landscape of education has been changing daily under the current conditions. We have developed new VIRTUAL programming to help you safely engage your students in STEM whether they are at home, or in your classroom.

We remain committed to developing informal science education programs that inspire young minds, improve STEM literacy and cultivate the creative, critical thinkers who will shape the future of Northeast Ohio. Thank you for choosing Great Lakes Science Center. See you soon!

## **Discounted Family Memberships for Teachers**

Discounted memberships are available for teachers. You and your family can enjoy free general admission to the Science Center. Get discounts on our camp programs and free general admission to 360+ reciprocal science centers and museums. Call 216.696.4576 for details.

# BOOK YOUR EXPERIENCE

**Reserve your trip by phone or email.** Book early as many of our program dates and times fill quickly.

## **By phone:**

Call our dedicated reservation agents at 216.621.2400 (Monday through Friday, 9 a.m. to 5:30 p.m.).

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## **By email:**

Contact [edhelp@glsc.org](mailto:edhelp@glsc.org) and be sure to include your school, grade level, and full contact information.

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## **Pre-register online:**

Save time by going to [GreatScience.com](http://GreatScience.com) and click on Educators>Plan a Field Trip. Our reservations team will collect your information and confirm your field trip by phone.

# IMPORTANT INFORMATION

## **Payment and Confirmation**

A confirmation packet will be emailed to you following the completion of your reservation. Please review the packet thoroughly to ensure you have everything you need.

Payment for all field trips is due 14 days prior to your event date. Acceptable forms of payment include credit card, check and purchase orders.

## **Cancellation Policy**

Please let us know in writing at least 48 hours in advance if you need to cancel. Payments are non-refundable and payments made toward a canceled session will be held as a credit toward a future session.

## **Virtual Platforms**

We plan to use Zoom for all virtual interactions and will email a link to the contact on the registration. This can be emailed out to your families with students at home. The Zoom call will start at the registered start time of the program. If you have technical difficulties, please contact us at 216.696.4185. If you are unable to use Zoom, please let us know at time of registration and we will try to make an accommodation by using a different service.

# IMPORTANT INFORMATION

## **Workshop Supply Kits**

All workshop kits will be delivered to your school or can be picked up at the Science Center. Please note your preference at registration. We will contact you with an estimated delivery time. It is very important that someone be available to receive each delivery as items may need to be stored in a temperature controlled environment. Each kit will contain all items needed to complete each workshop. We will provide one kit for each student registered, plus a kit for the teacher. After the workshop is completed, you can drop off any materials that need to be returned at the Science Center or we will schedule a date and time to pick up at your school.

## **Health and Safety**

We ensure that all proper protocol is followed when distributing the kits. Each element is cleaned and sanitized before packing. When materials are returned, they are thoroughly cleaned and sanitized before re-packing for future use.

\*\*Safety information sheets will be provided in all dissection workshop kits. These will contain important information on proper tool handling, ventilation needs and disposal of hazardous items. Please ensure that these are reviewed with your class prior to the program start.

# VIRTUAL FIELD TRIPS

## **Guided Exhibit Tour**

**\$50 per classroom**

Duration: ~30 minutes

We bring the Science Center to you! Your personal guide will lead you through one of the following exhibit areas as we demonstrate and explain our favorite exhibits. Questions are encouraged!

- Nanotech
- Electricity & Energy
- Body Worlds Rx  
(through January 3)
- Lights & Optics
- Sound & Music
- Cars & Motion
- NASA Glenn Visitor Center

## **LIVE Private Science Shows**

**\$75 per classroom**

Duration: ~45 minutes

Science becomes larger than life as we perform spectacular demonstrations just for your class! Choose from the following themes. Each show ends with time for questions and answers.

- Lift-Off
- Bubblemania
- Seeing Sound
- Magic of Matter
- Energize It

# HANDS-ON WORKSHOPS

## Pre-K – Kindergarten

**Engineering Challenge: Three Little Pigs**

**\$5 per student** | Duration: ~30 minutes

Students are junior engineers as they perform hands-on experiments exploring which materials can withstand the big, bad wolf. This workshop promotes science and literacy.

PSK; MK; RLK; SLK; LK

## 1-2

**Engineering Challenge: Skyscrapers**

**\$6 per student** | Duration: ~45 minutes

Students transform into engineers when they are challenged to build the tallest, free-standing tower using only five pieces of paper, scissors and tape.

PS1; PS2; M1; M2; SL1; SL2; L1; L2

## 1-2

**Dissection: Owl Pellets**

**\$7 per student** | Duration: ~45 minutes

Students will dissect an owl pellet with plastic tweezers.

They will compare their findings with an identification chart to discover what was in that owl's diet!

LS1; LS2

## 3-5

**Jumping Jitterbugs**

**\$7 per student** | Duration: ~45 minutes

Students explore how circuits and electricity work together while designing and creating their own Jumping Jitterbug.

PS3; PS4; PS5; SL3; SL4; SL5; L3; L4; L5

# HANDS-ON WORKSHOPS

## 3-5

### Dissection: Cow's Eye

**\$8 per student** | Duration: ~1 hour

Students will examine the complex structure of an eye and how it functions by cutting into and dissecting a cow eye.

**(Must be reserved at least four weeks in advance.)**

LS2; LS4; LS5

## 6-8

### Electricity Investigators

**\$6 per student** | Duration: ~1 hour

Students investigate circuits and electricity as they are challenged to design and build their own working flashlight.

PS6; PS7; PS8

## 6-12

### Dissection: Pig's Heart

**\$8 per student** | Duration: ~1 hour.

Students will get a tour of the body's pump with this dissection of a pig heart. They will cut into the heart to reveal the four chambers, peer into the aorta, and inspect blood vessels up close.

**(Must be reserved at least four weeks in advance.)**

PS6; PS7; PS8 HS BIO; SL; RST; WHST