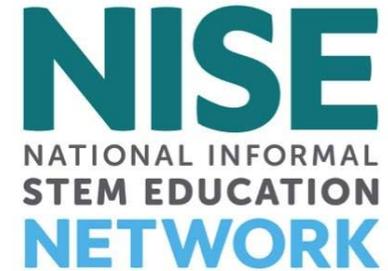


NISE Net Online Workshop

Museum school outreach and fields trips in
the time of COVID uncertainty

Tuesday, September 29, 2020



Welcome!

Today's presenters are:

- **Ross Johnston**, Mote Marine Laboratory & Aquarium, FL
- **Eron Damercy & Stephen Weisenreder**,
Rochester Museum & Science Center, NY
- **Elizabeth Nuckols**, ECHO, Leahy Center for Lake Champlain, VT
- **Josh Sarver**, Center of Science and Industry (COSI), OH



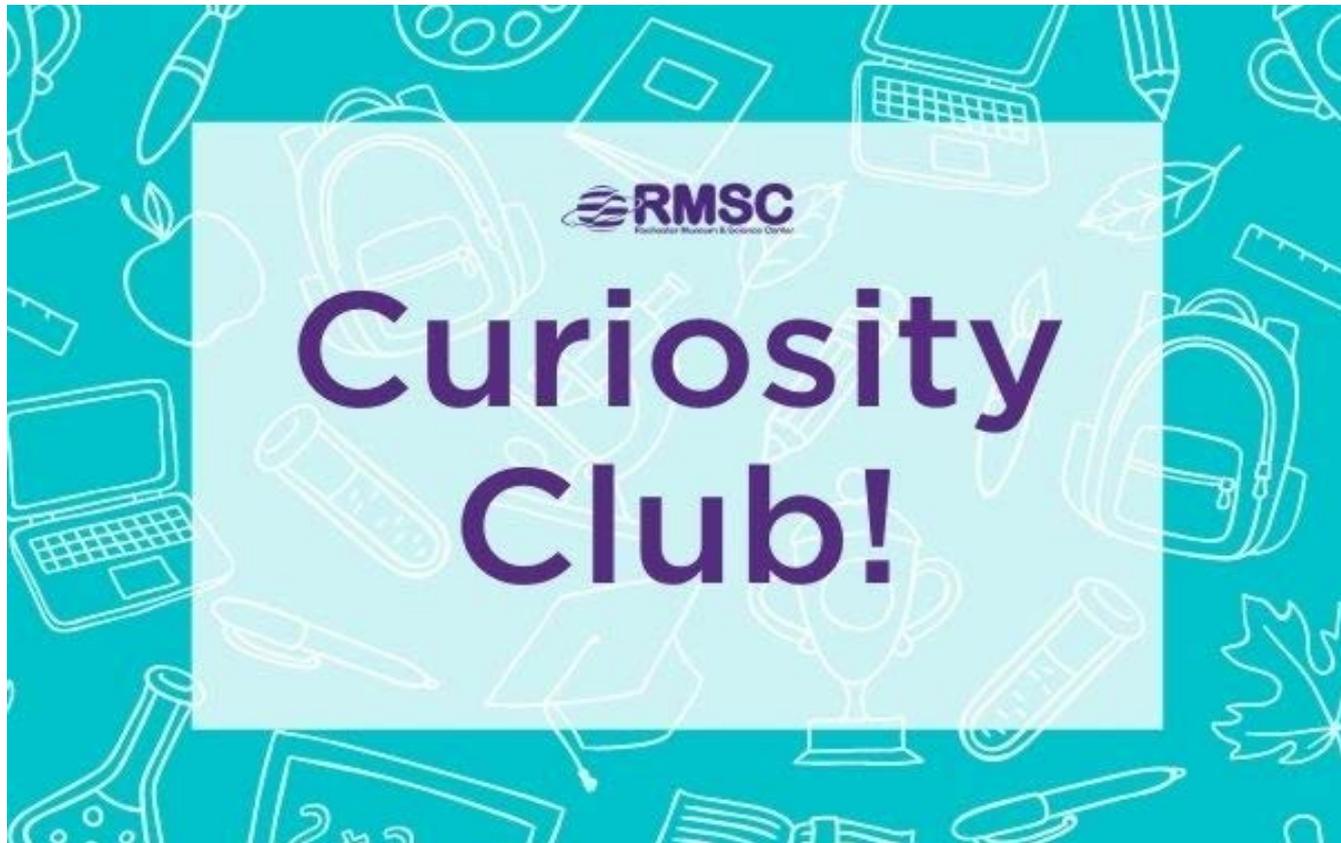
As we wait to get started with today's discussion, please:

Introduce yourself! Type your name, institution, and location into the Chat Box

Questions? Feel free to type your questions into the Chat Box at any time throughout the webinar or use the raise your hand function in the participants list and we'll unmute your microphone.

Today's discussion will be recorded and shared on nisenet.org at: nisenet.org/events/online-workshop

Stephen Weisenreder & Eron Damercy



**Rochester Museum and Science Center
Rochester, NY**

Curiosity Club at the RMSC

Who: Children in grades 1-8

What: Supervised virtual learning and homework help, STEM enrichment activities, exhibit exploration, science shows, COVID-friendly games and activities

Where: Socially-distanced classrooms with WiFi and individual workstations, flex spaces for games/enrichment, and Museum exhibits/presentation spaces

When: 9:00 AM - 4:00 PM (extended care available)
Monday-Friday *Program runs September-December but will remain open in spring 2021 if schools continue to use hybrid/virtual model

Why: To provide a safe, supportive learning environment for children with working families, fill gaps in demand for in-person Museum programs, and situate the RMSC as a valuable community asset





Curiosity Club by the Numbers



Unique Registrants: 132

Daily Registrations: 2467

Average Daily Attendance: 45

Everyone is Welcome at Curiosity Club!

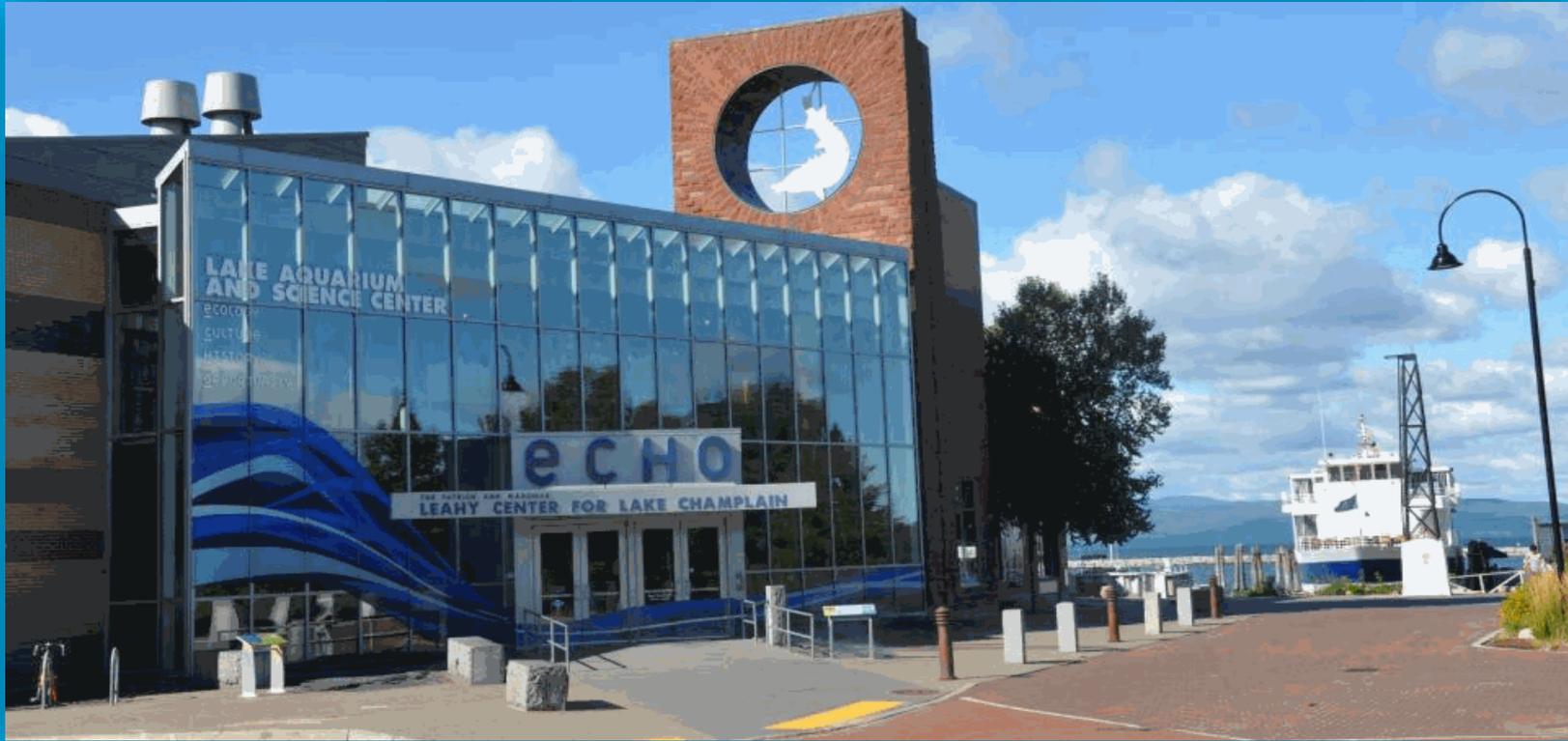
Scholarships & Free Meals

- \$44,000 provided by private foundation for students to attend Curiosity Club
- Applicants are eligible for a full scholarship if they receive SNAP benefits - quick & easy application
- Students receive as many days coverage & Extended Care as needed allowing RMSC staff to develop long-term relationships with students and make a lasting impact
- 27 Scholarship students (15-20% of registrants)
- Local food bank providing free breakfast & lunch for ALL club participants

Inclusive & Supported Learning

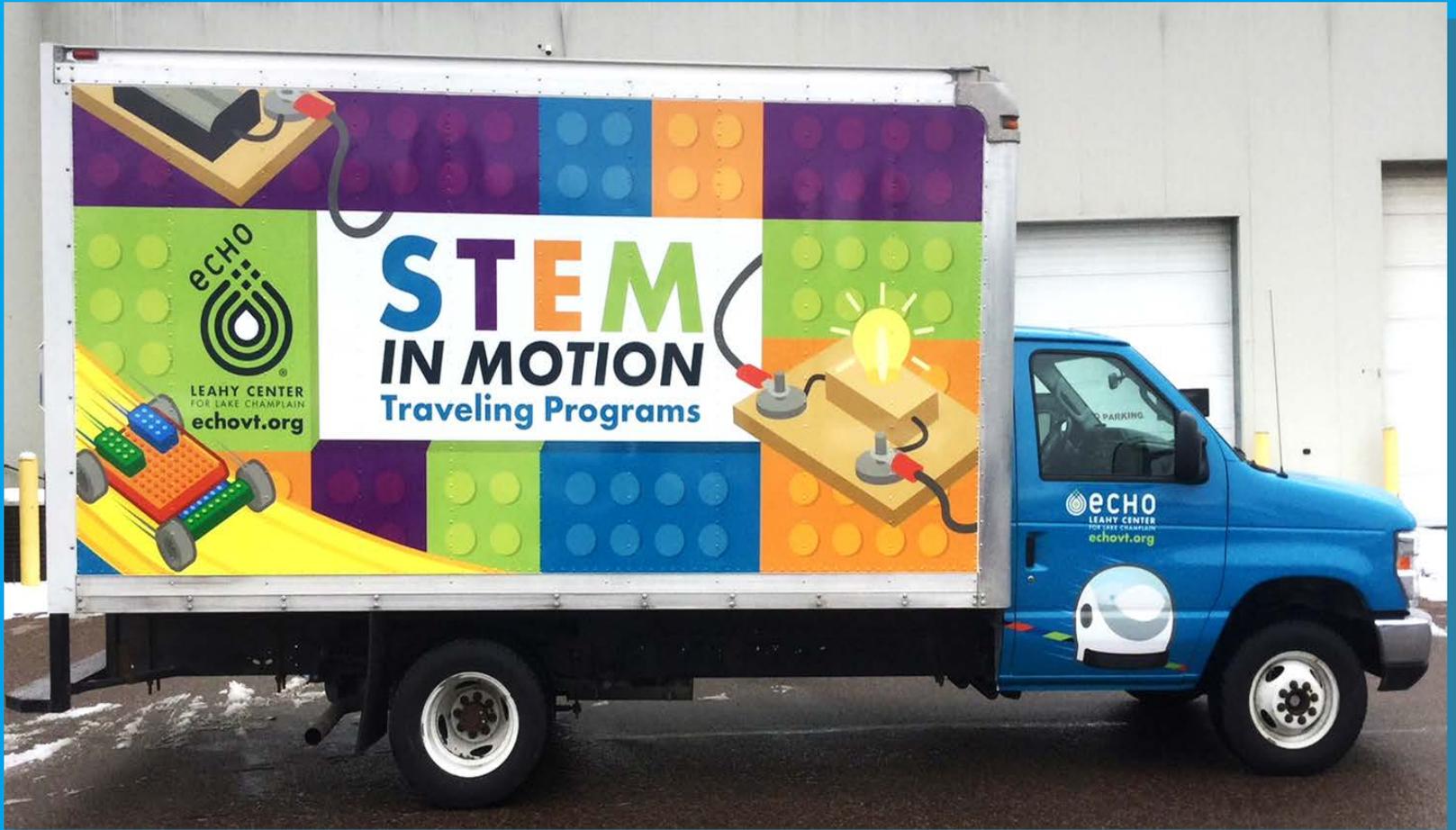
- Participants include students with IEP/504 plans, neurodivergent students, students with ADD/ADHD, sensory processing disorder, and Club can accommodate private lessons/therapy
- Club participants are in groups of 15 or less, providing lots of opportunities for personalized support
- Variety of learning spaces, materials, and staff/volunteers with diverse educational experience





Elizabeth Nuckols
Youth Programs Manager





Virtual STEM Academy



Online, At-Home Science Program by ECHO Educators

ECHO Virtual STEM Academy classes are standards-aligned, 6-week learning sequences for elementary-age students. Lessons are delivered virtually one day per week along with exciting at-home activity plans. ECHO STEM Academy classes are the perfect solution for keeping your student connected to their local community while taking the planning and guesswork out of at-home science instruction.

Who's It For?

- Students enrolled in hybrid school programs
- Homeschoolers
- At-home learning pods

Program Components

- *Morning science lessons* featuring exciting science demos, animal presentations, and guest scientists, technologists, and engineers from the community
- Themed, *at-home activity plans* built around everyday materials
- *Afternoon breakout sessions* for small group work and activity reflection.
- Visual, *kid-friendly weekly program guide*. [Click here to view program guide sample.](#)

Ways to Participate

- Synchronously: Log in live for morning lessons and afternoon breakout sessions on the scheduled program day
- Asynchronously: Following along at your own pace as new content gets posted each week

Session 1 Class Offerings

Registration Now Closed

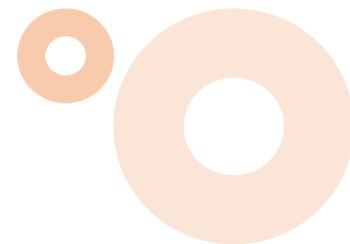
▶ CHAMP INVESTIGATORS | GRADES K & 1ST | MONDAYS

▶ ECOSYSTEM EXPLORERS | GRADES 2ND & 3RD | WEDNESDAYS

▶ EARTH AND SPACE DISCOVERY | GRADES 4TH & 5TH | WEDNESDAYS



Josh Sarver
Vice President of Exhibits & Programs



#1 NATIONAL BESTSELLER

The

WITH A NEW
AFTERWORD BY
THE AUTHOR

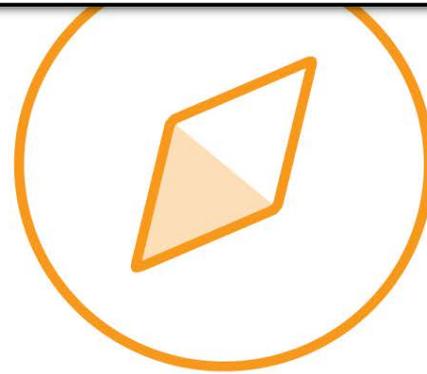
TIPPING POINT

*How Little Things Can
Make a Big Difference*



MALCOLM
GLADWELL

*"A fascinating book that makes you see the world
in a different way."—FORTUNE*



COSI 5.0

A STRATEGIC PLAN

2019-2024



ENGAGE. INSPIRE. TRANSFORM.

333 West Broad Street | Columbus, Ohio 43215 | COSI.ORG

4 Types - Community Events

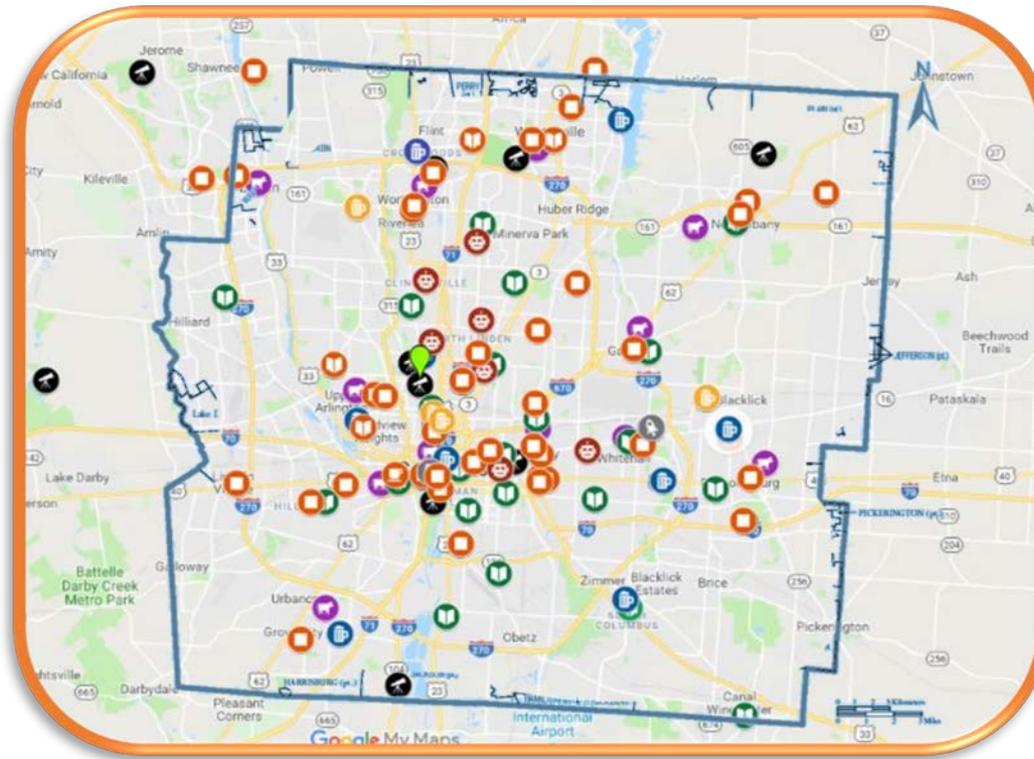


ADULT
SCI SERIES

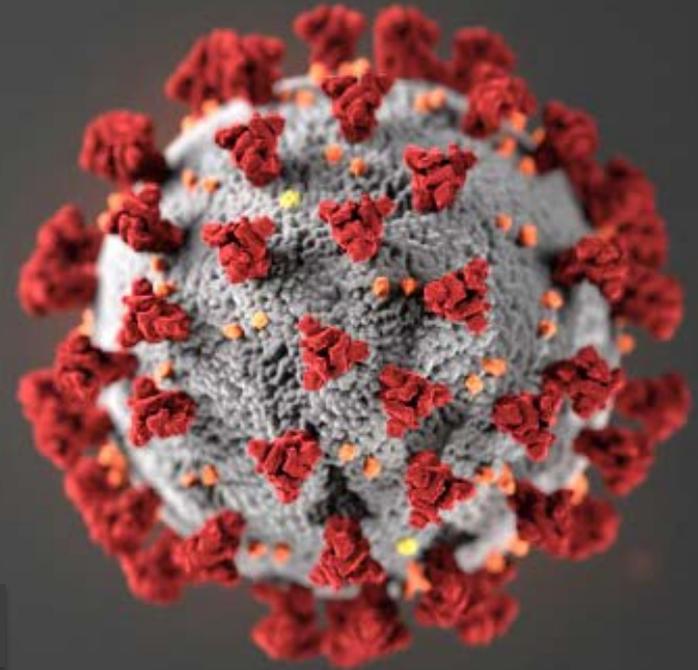


SCHOOL
PROGRAMS

Science is Everywhere

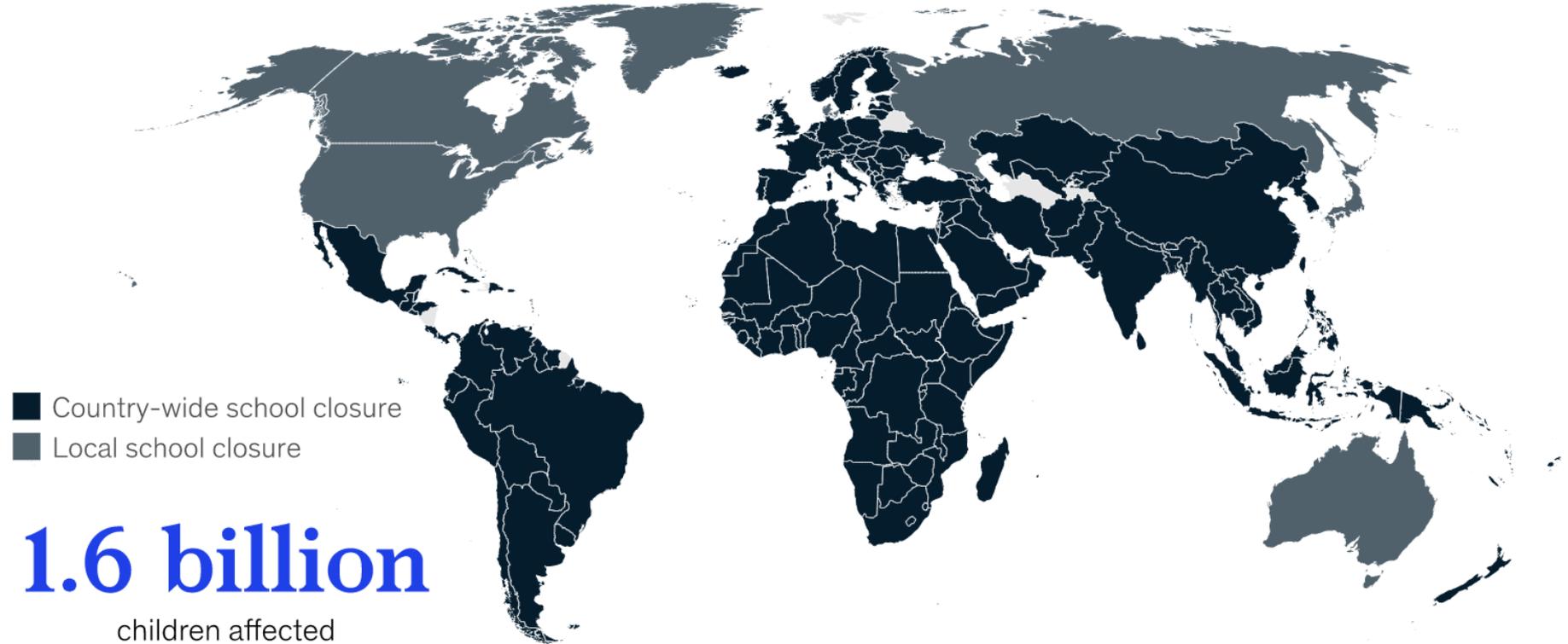


CORONAVIRUS DISEASE 2019 (COVID-19)



As of April 15, 191 governments had closed K–12 schools in response to the coronavirus.

School closures



Source: UNESCO

60 Events – 4 Days –
100K Impacted



DIGITAL IMPLEMENTATION





Strategy

Virtual Camp COSI Experiences

Fun Experiences that Deliver

Science.

Education.

Career Awareness.



COSI  connects

COSI connects

COSI Connects is COSI's Digital Doorway for fun at-home science discovery and learning. We provide exciting and engaging science through COSI videos and hands-on science you can try with your family at home.

ACTIVITY

Beak Buffet



Sauropods with Beaks? Have you ever noticed that different species of birds have very different types of beaks? In this activity, learn about adaptation and how a bird's beak shape helps them to find food and survive in their environment.

[TRY IT](#) [PRINT](#)

Added On: 05/22/2020
Age Ranges: Elementary
Subjects: Fossil Friday, Biology, Paleontology

OTHER ACTIVITIES

Subject: Video Type: Age Range: Sort Order:

Beak Buffet

Have you ever noticed that different species of birds have very different types of beaks? In this ...

Added on 05/22/2020 Age Ranges: Elementary

[VIEW ACTIVITY](#)

Ice Balloons

Make your own ice balloons, then design and perform your own experiments using basic house...

Added on 05/21/2020 Age Ranges: Early Childhood

[VIEW ACTIVITY](#)

Make your own Slime!

Support



COSI connects



INTERACTIVE VIDEO CONFERENCING @home



SCIENCE CHALLENGE



CITIZEN SCIENCE



COSI RAT BASKETBALL



COSI connects

COSI Connects is COSI's Digital Doorway for fun at-home science discovery and learning. We provide exciting and engaging science through COSI videos and hands-on science you can try with your family at home.

COSI connects

ACTIVITY

Ice Balloons



Make your own ice balloons, then design and perform your own experiments using basic household supplies.

[TRY IT](#) [PRINT](#)

Added On: 05/21/2020
Age Ranges: Early Childhood
Subjects: Educator Workshops, Experimental Design, Physics

OTHER ACTIVITIES

Subject: **Video Type:** **Age Range:** **Sort Order:**

Candy Camouflage

In this activity, participants will learn about camouflage. They will use candy to show how camo...
Added on 05/26/2020 **Age Ranges:** Elementary

[VIEW ACTIVITY](#)

Beak Buffet

Have you ever noticed that different species of birds have very different types of beaks? In this ...
Added on 05/22/2020 **Age Ranges:** Elementary

[VIEW ACTIVITY](#)



VIDEOS



PODCAST



SCIENCE CHALLENGE



NEW ACTIVITY

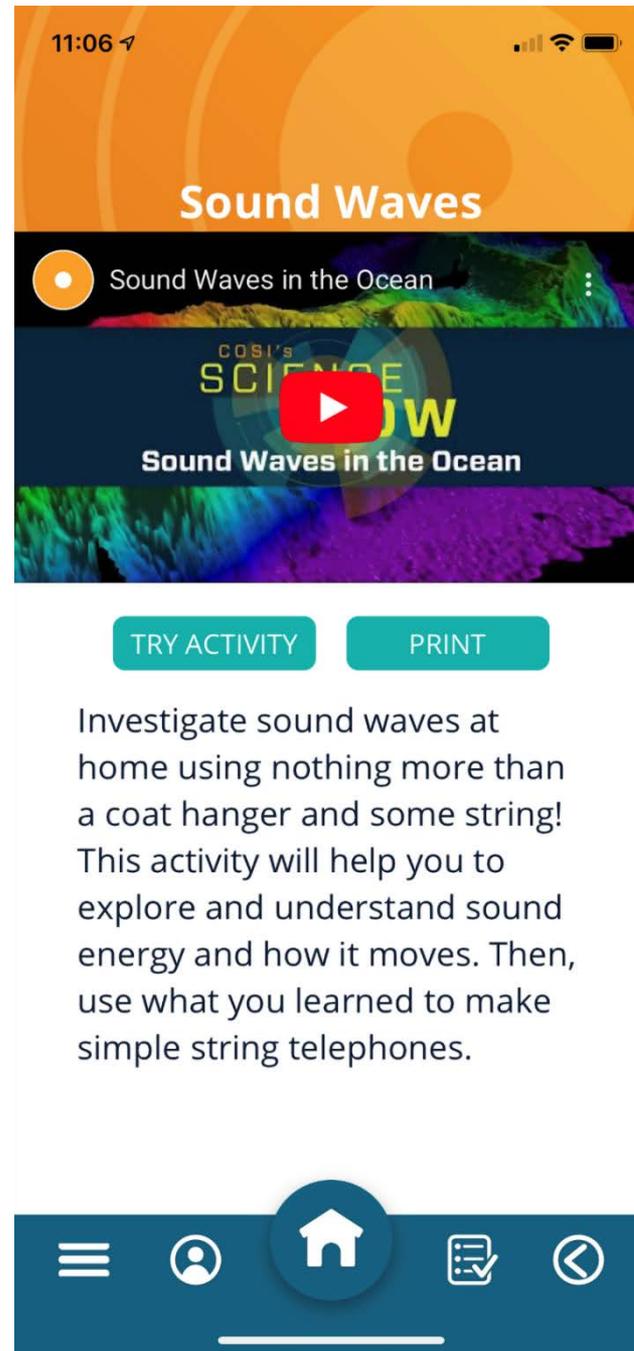


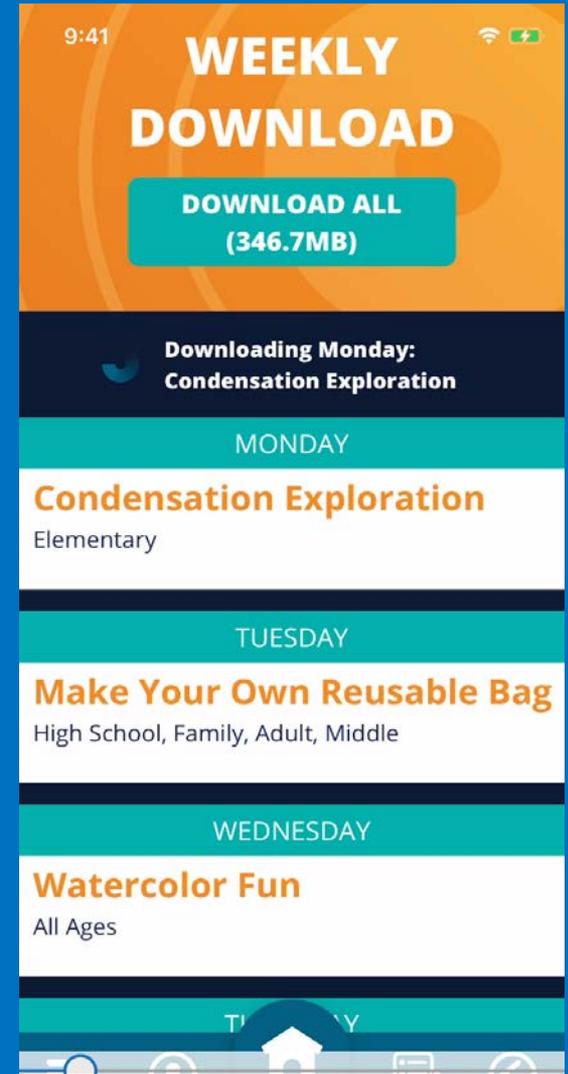
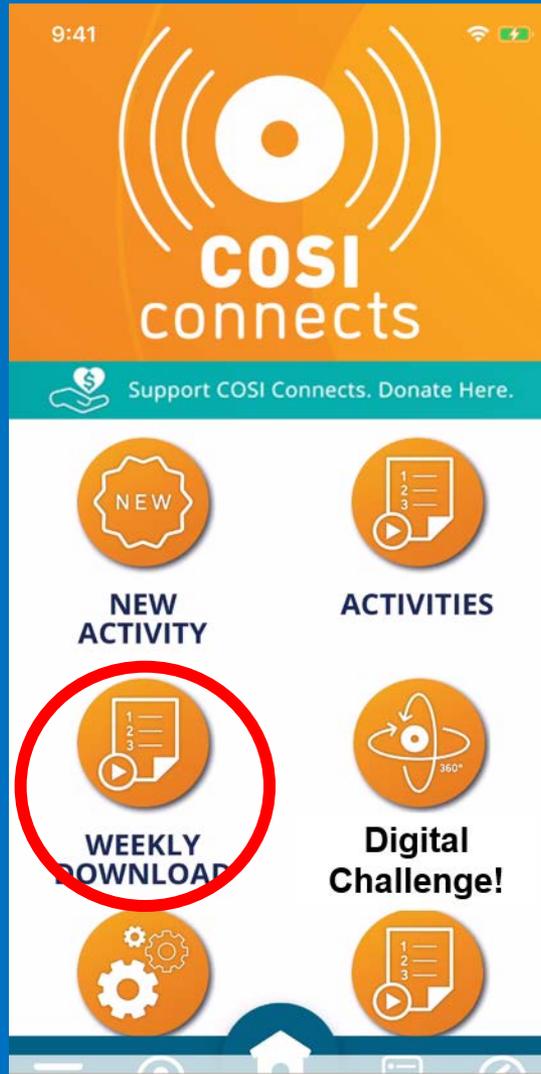
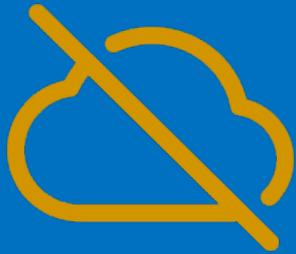
CITIZEN SCIENCE

COSI  connects

 teachback









Curbside: COSI on Wheels

*Bringing critical science to underserved youth
in Columbus where they live learn and lounge
in the COVID-19 Era*



COSI on WHEELS curbside



COSI @COSI · 30m

Replying to @COSI

In addition, a very special thanks to @COTABus's CEO, @joanna5317, for her leadership and dedication to providing educational resources to our underserved populations.



COSI @COSI · 30m

We are excited to embark on this partnership with @ColsCitySchools and @ColsCitySuper. The 5 events will take place throughout the month of August and into early September.



PHYSICAL IMPLEMENTATION



*An Innovative Partnership:
Feeding Hungry Lives
Feeding Hungry Minds*

A Bold Distance Learning Model During COVID-19 To Inspire Underserved Youth in STEM



COSI connects

COSI Connects is COSI's Digital Doorway for fun at-home science discovery and learning. We provide exciting and engaging science through COSI videos and hands-on science you can try with your family at home.

ACTIVITY

Ice Balloons

COSI Workshop: Ice Balloons | Emily

Make your own ice balloons, then design and perform your own experiments using basic household supplies.

[TRY IT](#) [PRINT](#)

Added On: 05/21/2020
Age Ranges: Early Childhood
Subjects: Educator Workshops, Experimental Design, Physics

Support

 f @ t v

INTERACTIVE VIDEO CONFERRING @home

SCIENCE CHALLENGE

CITIZEN SCIENCE

COSI RAT BASKETBALL

OTHER ACTIVITIES

Q Search

Subject: All | Video Type: All | Age Range: All | Sort Order: Newest

Candy Camouflage

In this activity, participants will learn about camouflage. They will use candy to show how camo...

[VIEW ACTIVITY](#)

Beak Buffet

Have you ever noticed that different species of birds have very different types of beaks? In this ...

[VIEW ACTIVITY](#)

COSI connects

GRADES PreK

ACTIVITY: Ice Balloons

VIDEO

Watch the [COSI Workshop: Ice Balloons](#). Then, make your own ice balloons to experiment on your own!

MATERIALS

Modify as necessary for the experiments you will perform

- Balloons*
- Water
- Salt
- Sugar
- Food dye
- Flashlight
- Magnifying glass
- Platter or plastic bin to catch melting water

INSTRUCTIONS

PART 1:

Create balloons

1. Carefully fill a balloon (or multiple balloons) with tap water. The easiest way to do this is to stretch the neck of the balloon over the faucet then turn it on low. Once it is at about 5 inches in diameter, turn off the water, remove the balloon, and tie it closed.
2. Place the balloon into the freezer. It may take up to 2 days to completely freeze your ice balloon(s).*

*Don't have balloons? Just use regular ice!

PART 2:

Experiment

Take your balloons out and cut the neck to remove the balloon. Place your ice on a platter or in a plastic bin to catch melted ice and other messes. Discuss what sorts of experiments you would like to perform, and what you think will happen when you try them out. Then test out your experiments! If you're not sure where to start, here are a few ideas:

- See what happens when you sprinkle salt on top of the ice. Place about 1/2 - 1 tsp of salt and observe for a few minutes. Does the same thing happen when you sprinkle sugar?
- Try putting a few drops of food coloring on the upper side of the ice. Does it flow? How?
- What if you add salt, then place food coloring where the salt was?
- Will your ice float in a bathtub or sink filled with water?
- What if you shine a light on your ice?
- Can you look at your ice with a magnifying glass? What do you see? What if you look at food dye on your ice with a magnifying glass?

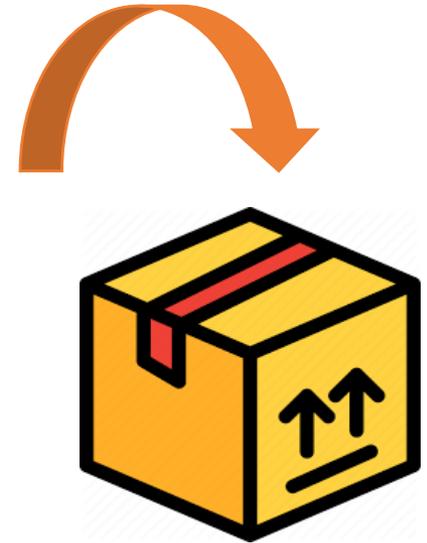
What's going on?

Experimenting with ice is a great way for kids to be curious, explore, and practice the scientific method. Ask a question, design an experiment, and observe the results of your experiment. Providing kids the freedom to explore in their own way makes the activity curiosity-led and inquiry-driven.

If you tested the salt, you might have noticed a pool of liquid forming as ice melts. Salt lowers the freezing point of water and thus allows the water to exist as a liquid below its normal freezing point.

Additional Resources:

Reach out to the [COSI Department of Science Content](#) if you have any questions or comments.



Phase I







WHAT IS IN THE BOX?

Phase I





ACTIVITY: Chromatography Flowers

Look at your markers. What color is each marker? In this activity, you will use a process called chromatography to explore additional colors that are hidden inside markers! Chemists use this process to figure out what is inside certain materials. All we need today is water: H₂O!



START HERE!

Take a picture with your phone of this square to see a cool video! →



MATERIALS

IN THE BOX:

- 6 coffee filters
- Dixie cup
- dark colored marker
- pipe cleaner

FROM HOME:

- paper towel or a drying rack

→ PART ONE: Chromatography



INSTRUCTIONS

1. Pick a dark colored marker for your experiment. Hypothesize: how many different pigments, or colors, do you think you will find in that color of marker?
2. Put a small amount of water in your dixie cup (about ½ inch deep)
3. Take one coffee filter and flatten it. Draw a circle in the middle about 2-3 inches wide
4. Fold the coffee filter in half and then in half again, so that there is a point at the bottom. Place it in the cup so the tip is touching the water, but the marker ink is not.
5. Watch for 3 minutes. What happens? What do you notice?
6. Once you are happy with how your experiment looks, remove it from the water and let it dry!
7. Make as many as you would like! Experiment with different colors and patterns.



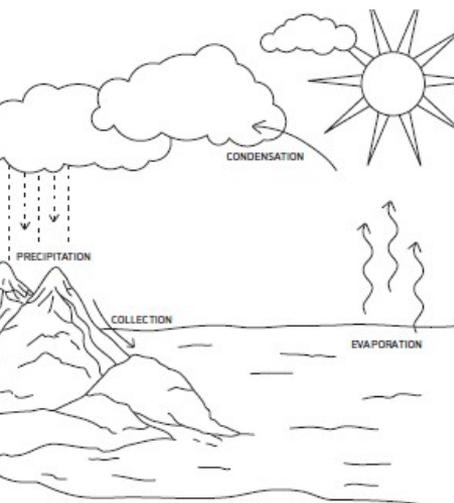
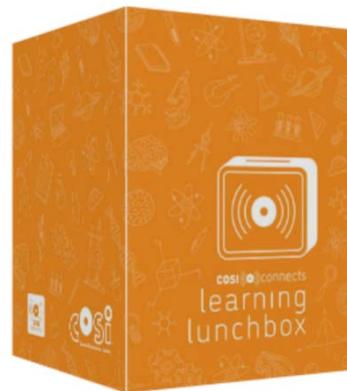
turn page over for more! →



Phase I



Phase I



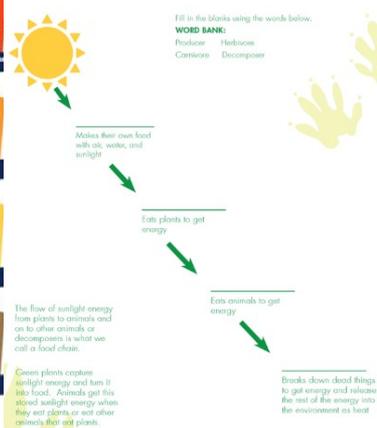
word search

H F N L B Y R T H A Z V G V Y L U I G G
 U W U D T S T Q I Q N V S N W I G B E R
 O W R L Q J U A F Z K J H I Y E S C D A
 H N T K L D S R O E T I G T M P Y X L V
 Q K S W Y P B R F D A F F H E K X M M I
 Y G O T Q Y F Z L A X C M G W N W H T T
 K D K F T W K Z B B C M J M Y E S U R Y
 L I Y N I H Q H M D D E S P B W I I G C
 M M H T Q G V E L Q V I T P I V Q G O N
 A Z I M K R P M Z X X K J S X P O F H N
 D V F C Q T O T X L O P Y Z I L E N S T
 E U A M R T Y Z A W L T L P O N I T D D
 N S V M K O K K H L D B B S O O P T H
 S V B J D S K L I A R J F H E M G Y E
 I G E P C F O C S N A S E R O S G R G E
 T P I F S C V G O Z T H M P H R V E X X
 Y H L X N M X N Z P S I E S E U C C D D
 O G G B C C V C H T E O V R Z C E E M P
 J H A D W O K N D O K E C Y Z L T T W B
 D V J I E S X R Q V J V C Z H P S C Q Y

Microscope	Lens	Surface	Force
Pipette	Gravity	Weight	
Density	Zoom	Tension	



How Energy Flows Through a Food Chain



Fill in the blanks using the words below.
WORD BANK:
 Producer Herbivore
 Carnivore Decomposer

Green plants capture sunlight energy and use it to grow. Animals get this stored sunlight energy when they eat plants or eat other animals that eat plants.

Animals get energy from plants.

Decomposers break down dead things to get energy and release the rest of the energy into the environment as heat.





cosi.org/connects

JPMORGAN CHASE & CO.

what is a QR Code

...those squares with black and white of a QR code is short for "Quick Response Code". It's a type of bar code that uses black letters, numbers and other symbols into a pattern of small black squares.

You can use your smartphone camera to scan the information in the QR code to give you the information you need (or URL) that will take you to the information you need.

So, instead of typing in a long URL, you can just scan the QR code.

It's faster and easier than typing in a long URL. Why many people share information using QR codes.

HOW-TO USE COSI connects OFFLINE

Test your knowledge and use QR codes to check your answers:

How Dinosaurs Looked

Fancy frills, sharp horns, pointy spikes, massive tails on their backs—dinosaurs had them all! Why did dinosaurs sport these features? For clues, scientists often compare dinosaur designs with those of modern animals. Guess what the features are for! Scan the QR code for the answer.

1. What is the function of the armor on these animals?



A. Edmontonia



B. Armadillo

CLUE: Weighing in at over 3.5 tons, Edmontonia had relatively short and muscular legs that supported a heavy load on its back. It also sported hornlike spikes on its sides.

SCAN HERE for answer

2. What is the function of these horns and frills?



A. Triceratops



B. Rhinoceros

CLUE: A young Triceratops typically had smaller horns and frills. These features became fully developed only when the animal reached maturity.

SCAN HERE for answer

3. What function did the Hadrosaur crest serve?



A. Hadrosaur



B. Cassowary

CLUE: Scientists think that the crest on the Hadrosaur's head may have been brightly colored. They also think it may have looked different in males and females.

SCAN HERE for answer

SCAN HERE for a Virtual 360° Tour of the American Museum of Natural History Dinosaur Gallery at COSI

-  **Step 1**
Connect to the Internet
-  **Step 2**
Download the COSI App on your smartphone
-  **Step 3**
Take a picture of this square to download the COSI app
-  **Step 3**
Visit the COSI Connects tab
-  **Step 4**
Click Weekly Downloads, and hit Download All
-  **Step 5**
Follow along daily for explosive videos, hands-on activities, and much more!





cosi.org/connects

Garden Guide

how to plant and care for your seeds

Children's Hunger Alliance

cosi connects learning lunchbox

-  **Step 1**
Find a container for your seed. Trays, cups, or small pots work well!
-  **Step 2**
Fill your container with a bit of dirt, almost up to the top—but with a little room left over.
-  **Step 3**
Use a little bit of water to wet the top of the dirt.
-  **Step 4**
Sprinkle the seeds from your box over the top of the dirt.
-  **Step 5**
Put a bit more dirt over top of the seeds.
-  **Step 6**
Place the seed container in a warm place, and water once a day!
-  **Step 7**
Take some notes in your workbook about your seed! Once your seed starts to grow, draw a picture each day to track its progress.
-  **Step 8**
Take a picture of your seed once it grows and upload it to the COSI App, or tag us on social media with #COSIConnects.

healthy bodies, healthy minds





cosi.org/connects

Supporting Sponsor
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what is a
QR Code?



...those squares with black and white dots?

A **QR code** is short for "Quick Response" Code. It's a type of barcode that codes letters, numbers and other information into a pattern of small black and white squares.

You can use your smartphone to decode the information in the QR code. Point your smartphone camera at the square. Your smartphone camera will scan and read the code to give you the information. Often the encoded information is a web address (or URL) that will take you to a webpage.

So, instead of typing this web address...
https://cosi.org/connects/?showid=content_activities
you can just scan this!



It's faster and easier to scan the QR code than to type in the web address. That is why many companies use QR codes to share information! Where have you seen QR codes used?

Test your knowledge and
use QR codes to check your answers:

How Dinosaurs Looked

Fancy frills, sharp horns, pointy spikes, massive sails on their backs—dinosaurs had them all! Why did dinosaurs sport these features? For clues, scientists often compare dinosaur designs with those of modern animals. Guess what the features are for! Scan the QR code for the answer.

1. What is the function of the armor on these animals?



A. *Edmontonia*



B. Armadillo



SCAN
HERE
for answer

CLUE Weighing in at over 3.5 tons, *Edmontonia* had relatively short and muscular legs that supported a heavy load on its back. It also sported hornlike spikes on its sides.

2. What is the function of these horns and frills?



A. *Triceratops*



B. Rhinoceros



SCAN
HERE
for answer

CLUE A young *Triceratops* typically had smaller horns and frills. These features became fully developed only when the animal reached maturity.

3. What function did the *Hadrosaur* crest serve?



A. *Hadrosaur*



B. Cassowary



SCAN
HERE
for answer

CLUE Scientists think that the crest on the *Hadrosaur's* head may have been brightly colored. They also think it may have looked different in males and females.



SCAN
HERE

for a Virtual 360° Tour of the
American Museum of Natural
History Dinosaur Gallery at COSI



Nature BOX

Educator, Parent & Caregiver Resource Guide

Dear Educators, Parents, and Caregivers:

We know education is important now more than ever, and COSI stands ready to be your partner with this COSI Learning Lunchbox. Together, we will engage, inspire, and transform our students and youth in science, technology, engineering, and math (STEM) at school and at home. COSI has leveraged Ohio's Core Principles for Remote Learning and the Remote Learning Resource Guide to provide high-quality remote learning, respond to issues of equity, leverage partnerships, and much more to design a collection of engaging activities to complete at home. These activities correlate directly to Ohio's Learning Standards - the same key learning goals that schools, educators, parents and caregivers use.

This box is full of experiences designed to engage learners of all ages! As you look through the **Activity Sheets**, you will find step-by-step instructions, interactive questions that will promote critical thinking, and explanations of the science behind each activity. If you want to dig deeper into science, at your grade level, additional experiences are available through our free COSI Connects digital platform. On this "**Educator, Parent, and Caregiver Resource Guide**," you will find the Ohio Learning Standards that correspond to each of the activities in this box. We are in this together, for Each Child and for Our Future.



Animal Hide and Seek

Kindergarten K.LS.1: Living things have specific characteristics and traits.

Kindergarten K.LS.2: Living things have physical traits and behaviors, which influence their survival.

First Grade 1.LS.2: Living things survive only in environments that meet their needs.

Third Grade 3.LS.2: Individuals of the same kind of organism differ in their inherited traits. These differences give some individuals an advantage in surviving and/or reproducing.



What's for Dinner?

Kindergarten K.LS.1: Living things have specific characteristics and traits.

First Grade 1.LS.1: Living things have basic needs, which are met by obtaining materials from the physical environment.

Fourth Grade 4.LS.1: Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.



What's for Dinner? con't

Fifth Grade 5.LS.1: Organisms perform a variety of roles in an ecosystem.

Seventh Grade 7.LS.1: Energy flows and matter is transferred continuously from one organism to another and between organisms and their physical environments.



Birdwatching

Kindergarten K.LS.1: Living things have specific characteristics and traits.

Kindergarten K.LS.2: Living things have physical traits and behaviors, which influence their survival.

First Grade 1.LS.2: Living things survive only in environments that meet their needs.

Second Grade 2.LS.2: All organisms alive today result from their ancestors, some of which may be extinct. Not all kinds of organisms that lived in the past are represented by living organisms today.



What's a Watershed?

Second Grade 2.LS.1: Living things cause changes on Earth

Fourth Grade 4.ESS.1: Earth's surface has specific characteristics and landforms that can be identified.

Science 4.ESS.3: The surface of Earth changes due to erosion and deposition.

High School Biology B.DI.2: Ecosystems

High School Environmental Science ENV.GP.2: Potable water quality, use, and availability

High School Environmental Science ENV.ES.4: Hydrosphere

High School Physical Geology PG.ER.3: Water



Biomimicry

Kindergarten K-2.DT.1.a.: Identify and discuss differences between the human-designed world and the natural world.

Third Grade 3-5.DT.1.d.: Identify and describe examples of technology products and processes.

Sixth Grade 6-8.DT.1.b.: Analyze how tools, materials and processes are used to alter the natural and human-designed worlds.



ACTIVITY: Float Your Boat

What objects float in water, and what objects sink?
Try experimenting with different objects to see which ones are buoyant.

START HERE!

Take a picture with your phone of this square to see a cool video! →



MATERIALS

IN THE BOX:

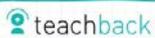
- objects of various weights, sizes and shapes: paperclip, pen, tin foil, a piece of tissue paper, and a penny

FROM HOME:

- objects of various weights, sizes and shapes, such as Styrofoam packing peanuts, a screw, a tennis ball, or a ping pong ball
- a bowl, cup or bin filled with water

INSTRUCTIONS

1. What do you think makes an object float? Look at the objects in front of you and predict which objects will float and which will sink.
2. One by one, put each item into the water? Which ones float? What do they look like?
3. Now, teach back what you've learned! Use the COSI app to upload a photo or video of your completed activity.



EXTENSION:

Find a bottle cap - do you think the bottle cap will float? Why or why not? Test your prediction. You may have to put the cap on the water very carefully, but you should be able to get it to float. Use your pipette to add a few drops of water to the cap. Does it still float? How many drops do you think it be able to carry before it sinks? If it sinks, why does the cap sink?

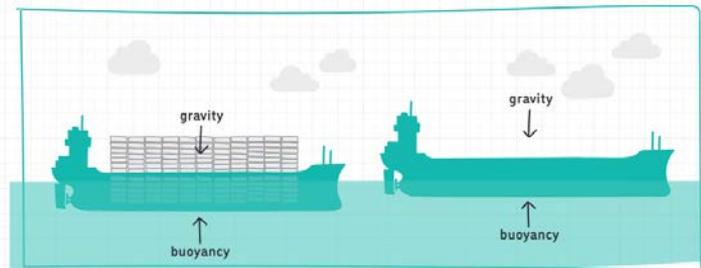
turn page over for more! →



WHAT'S GOING ON?

When an object is placed into the water, gravity pulls it down and the water exerts an upward buoyant force on that object. The weight of the object helps determine whether it will float or sink, but so does its shape. Boats and bottle caps have spaces with air in them. Air is less dense than water, which helps the object float. If that space fills up with water, it no longer helps the object float and the object sinks.

How does a ship as big as the Titanic float? The ship was made mainly from iron and steel. Steel has a density about eight times that of water, so you would expect a ship made of steel to sink. However, if you were to look at a plan of the Titanic, you would learn that most of its volume was occupied by air. So the average density of the entire ship was less than the density of water, causing it to float. Sadly, when the Titanic hit the iceberg, water rushed into the ship's hull and displaced the air. The average density of the water and the steel ship was greater than the density of water.



HAVE A QUESTION ABOUT WHAT YOU JUST LEARNED?

Email sciencequestions@cosi.org.

WANT TO SHARE YOUR SCIENCE?

Tag us on Instagram and Facebook @cosiscience, or on Twitter @cosi using the hashtag #COSIConnects.

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to visit COSI Connects



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COSI connects

COSI Connects is COSI's Digital Doorway for fun at-home science discovery and learning. We provide exciting and engaging science through COSI videos and hands-on science you can try with your family at home.

ACTIVITY

Ice Balloons



Make your own ice balloons, then design and perform your own experiments using basic household supplies.

TRY IT PRINT

Added On: 05/21/2020
Age Ranges: Early Childhood
Subjects: Educator Workshops, Experimental Design, Physics

OTHER ACTIVITIES

Search

Subject: All | Video: **1 2 3** | Age Range: All | Sort Order: Newest

Candy Camouflage

In this activity, participants will learn about camouflage. They will use candy to show how camo...

Added on 05/26/2020 Age Ranges: Elementary

VIEW ACTIVITY

Beak Buffet

Have you ever noticed that different species of birds have very different types of beaks? In this ...

Added on 05/22/2020 Age Ranges: Elementary

VIEW ACTIVITY

Support



INTERACTIVE VIDEO CONFERENCING @home

SCIENCE CHALLENGE

CITIZEN SCIENCE

COSI RAT BASKETBALL

9:41



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NEW ACTIVITY



ACTIVITIES



WEEKLY DOWNLOAD



Digital Challenge!



WATER BOX



OSU Extension
Connecting The Ohio State University to Ohioans

OSU Extension
Connecting The Ohio State University to Ohioans



NATURE BOX

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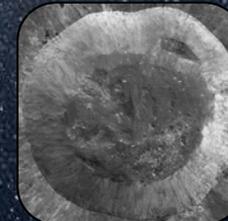
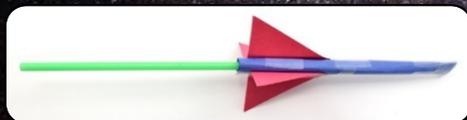
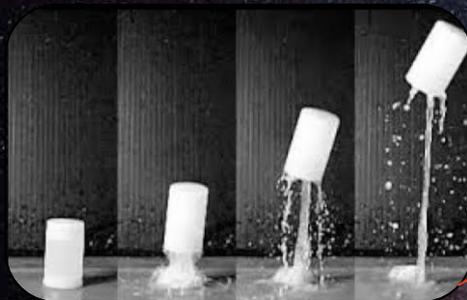


SPACE BOX



SPECTACULAR SPACE

- Monday – Build an Electromagnet
- Tuesday – Rockets
- Wednesday – Build a Moon Base
- Thursday – Impact Craters
- Friday – Parachute





Jim Bridenstine

Dr. Frederic Bertley



Chief Astronaut Doug Wheelock

STEM is important now more than ever for our youth and together we will help develop the next Artemis generation.



Dr. Marla Perez-Davis

EIGHT THEMED KITS

WATER



NATURE



SPACE



ENERGY



ENGINEERING



HEALTH



DINOS



LIMITED EDITION
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EDUCATOR TOOLKIT

Connect to a universe of science online, offline, and in your classroom.

kits cosi connects

HANDS-ON KITS
STEM boxes for the classroom



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PLEASE TAKE OUR SURVEY HERE

cosi connects live

Live virtual programming in the classroom or home

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COSI Connects Free Teacher Activities available here



Virtual Field Trips
360 Tours of COSI Exhibitions

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cosi on WHEELS curbside

COSI comes to you with free WiFi and Mini-Science Kits

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COSI ((O)) connects



COSI can also work with your school to determine availability of publicly funded versions of these STEM Kits, called COSI Learning Lunchboxes.

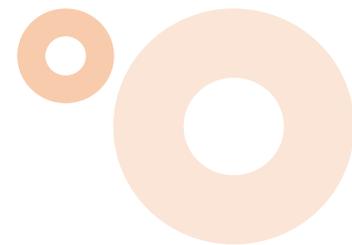
PARTNERSHIP BETWEEN



Ohio
Department of Education



Josh Sarver
Vice President of Exhibits & Programs



Workshop Overview



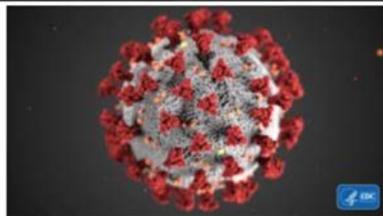
- **Ross Johnston**, Mote Marine Laboratory & Aquarium, FL **8 min**
- **Elizabeth Nuckols**, ECHO, Leahy Center for Lake Champlain, VT **8 min**
- **Eron Damercy & Stephen Weisenreder**, Rochester Museum & Science Center, NY **8 min**
- **Josh Sarver**, Center of Science and Industry (COSI), OH **8 min**
- **Ali Jackson** – Sciencenter & NISE Network – **5 min**
- **Share-out, discussion, Q/A** – **20 min**

COVID-19 NISE Network Resources

Coronavirus Museum Resources

We wanted to make sure you are aware of these resources in this rapidly changing situation:

- Association of Children's Museum (ACM)
<https://www.childrensmuseums.org/about/acm-in-the-news/307-museum-response-covid-19astc>
- Association of Science and Technology Centers (ASTC), including educational resources, policy and advocacy updates and tools, and business and operations resources
<https://www.astc.org/coronavirus/>
- Association of Science and Technology Centers (ASTC) Educational Resources
<https://www.astc.org/coronavirus/educationalresources/>



- Museum reopening resources (ACM, ASTC, AZA, IMLS, Dome Dialogues and more)
- Coronavirus resources (CDC, NIH, Johns Hopkins and more)
- NISE Network Online Workshops
- Viruses and Coronavirus videos and activities for the public
- Resources for digital public engagement
- Evaluation and research resources

NISE Net Online Workshop NISE Network Partner Reopening Strategies PART 1 Tuesday, May 26, 2020



Welcome!

Today's presenters are:

- Brad Herring, Museum of Life and Science, NC
- Laura Huerta Migus, Association of Children's Museums
- Aaron Pan, Museum of Texas Tech University
- Diane LaFollette, Mid-America Science Museum
- Meagan Downey, Robinson Nature Center



As we wait to get started with today's discussion, please:

Introduce yourself! Type your name, institution, and location into the Chat Box.

Questions? Feel free to type your questions into the Chat Box at any time throughout the webinar or use the raise your hand function in the participants list and we'll unmute your microphone.

Today's discussion will be recorded and shared on nisenet.org at: nisenet.org/events/online-workshop



Online Workshop: NISE Network Partner Reopening Strategies PART 1

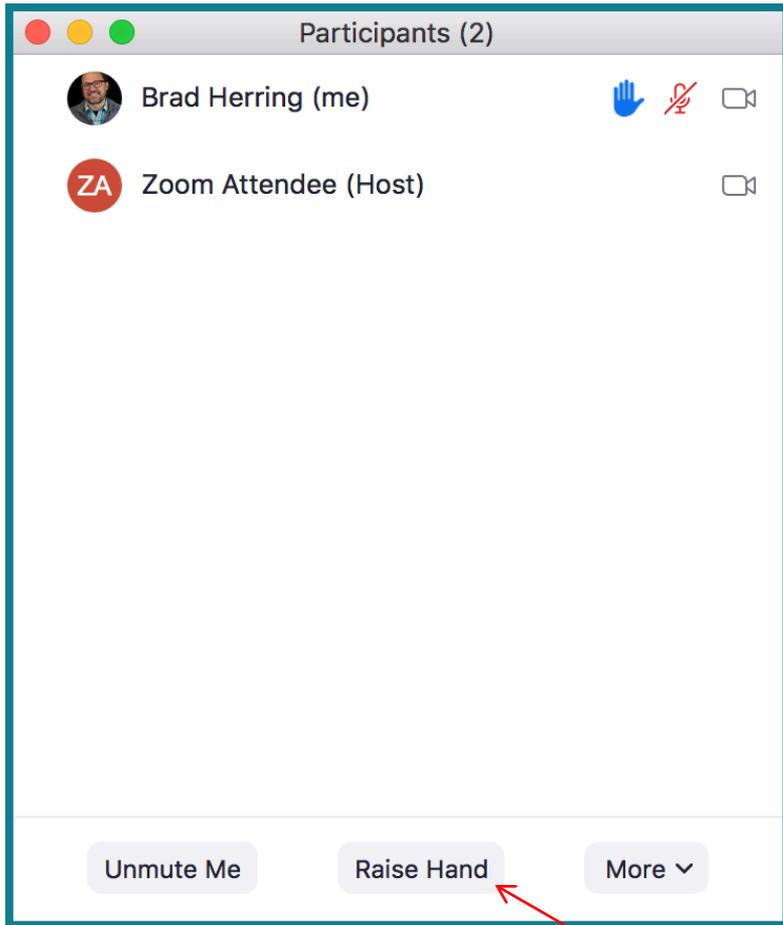
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See video analytics

<https://www.nisenet.org/coronavirus>

<https://www.nisenet.org/athome>

How to Participate in the Share-Out

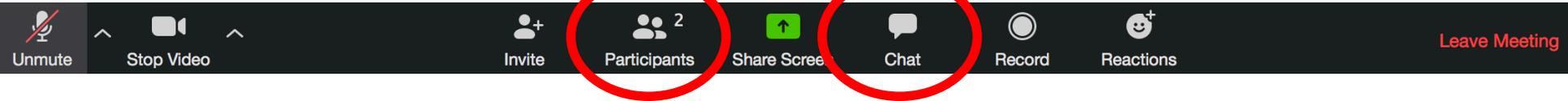


How to talk

- Raise your hand
- Keep yourself muted
- Keep the conversation constructive
- Reminder that today's session is being recorded

How to chat

- Enter your comments and questions into the chat box



Discussion Topics from RSVP Form

- What does **HANDS-ON** look like this year? How do we remain inquiry-based, interactive, and engaging? Anything happening in-person?
- **Partnering with schools and teachers:** How are museums marketing and communicating their virtual options and how can we support what teachers are doing to enhance the remote or physical distanced learning this year?
- **Live versus pre-recorded:** Benefits? Challenges?
- How do we continue to include **volunteers, SMEs, grad students**, other facilitators?
- How do we determine **pricing** and what other **financial models** are museums exploring?
- What about **pre-K**?

Upcoming NISE Network Online Workshops



**Online Workshop: The Science Behind the
2020 Explore Science: Earth and Space
Toolkit B – Virtual Tour of a NASA MoonLab**
Tuesday, October 13, 2020
2pm-3pm Eastern / 11am-12pm Pacific

**Online Workshop: Moon Adventure Game -
An introduction to a new challenge-based
game for science and children's museums**
Tuesday, October 27, 2020
2pm-3pm Eastern / 11am-12pm Pacific

[Learn more at nisenet.org/events](https://nisenet.org/events)

Get Involved

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NISE Network's online digital resources
nisenet.org



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