

Welcome Packet

Ohio Distance Learning Initiative:



Congratulations!

Welcome!

Congratulations!

Your **Library District** has selected you and your library to receive free COSI Learning Lunchboxes: Space Edition as part of the Ohio Distance Learning Initiative. We are excited to partner with you through the State of Ohio to deliver these free kits for your library program to amplify learning and youth engagement.

In this Welcome Packet, please find the following:

- **Quick Overview Video:** This video highlights how you might use your Space box in your library program.

Please click [HERE](#) (if viewing digitally) to access your video or scan here with your phone:



- **Space Box Overview and Standards:** Here you will find activity descriptions and learning standards that apply to each of the five activities found inside the Space box.
- **Required Survey:** Please complete this survey as part of this program once you have used your Learning Lunchboxes.
- **Digital Extension Resources:** This one-pager features resources from the State of Ohio available on InfoOhio.
- **Prepare Toolkit!** - An Ohio Library Council toolkit on ways to use your kit and engage your community leaders!
- **COSI Catalog: COSI-ify YOUR Library!** by using this brochure to explore COSI's experiences to enhance your library programs.

If you have questions, please email us at COSIEducation@cosi.org or your personal COSI Education Concierge at 614.228.2674.

We appreciate all that you do to support Ohio youth and families. We are all in this together. Thank you!



Preparing for COSI Learning Lunchbox Distribution

The Ohio Library Council teamed up with COSI to help make science, technology, engineering, and math (STEM) learning opportunities more accessible to children in your library service area that would benefit the most. Thank you for being a part of this program. Your library is receiving 50 free learning lunchboxes to distribute.

The following tips are provided to help you make the most of your distribution day:

Take pictures during your distribution event.

- ✓ Share them on social media using **#LearningWithOhioLibraries** and **#COSIConnects**.
- ✓ Send a picture to your local media.
- ✓ Include a picture in your next newsletter.
- ✓ Share pictures at your next Board of Trustees meeting.

Don't forget to invite your legislators to your distribution event.

- ✓ Take a picture with your legislator.
- ✓ Share on social media and tag your legislator.

Sample Posts:





SPACE BOX OVERVIEW

This box is full of experiences designed to engage learners of all ages! As you look through the activity book, you will find step-by-step instructions, interactive questions that will promote critical thinking, and explanations of the science behind each activity. Here you will find the Ohio Learning Standards that correspond to each of the activities in this box.



Become an Engineer-Build A Rocket

In this activity, each child will learn that Aerospace engineers work to build rockets that travel to outer space. Using the materials provided inside the box, they will build a rocket that is capable of moving and transporting a payload of supplies to the International Space Station.

Kindergarten K-2.DT.3.a: Describe how different technologies are used in various fields.

Third-Fifth Grade 3-5.DT.1.b: Give examples of how requirements for a product can limit the design possibilities for that product.

Second Grade 2.PS.1: Forces change the motion of an object.

Fifth Grade 5.PS.1: The amount of change in movement of an object is based on the mass of the object and the amount of force exerted.

Eighth Grade 8.PS.1: Objects can experience a force due to an external field such as magnetic, electrostatic, or gravitational fields.

Eighth Grade 8.PS.2: Forces can act to change the motion of objects.



Go to Space- Launch a Rocket

In this activity, each child will use their new engineering expertise to become an astronaut and make a new rocket. By creating a chemical reaction, their rocket will launch into outer space.

Second Grade 2.PS.1: Forces change the motion of an object.

Fourth Grade 4.PS.2: Energy can be transferred from one location to another or can be transformed from one form to another.

Fifth Grade 5.PS.1: The amount of change in movement of an object is based on the mass of the object and the amount of force exerted.

Sixth Grade 6.PS.3: There are two categories of energy: kinetic and potential.

Seventh Grade 7.PS.3: Energy can be transformed or transferred but is never lost.

Eighth Grade 8.PS.2: Forces can act to change the motion of objects.



Build a Moon Base

In this activity, each child will use their own creativity and the engineering design process to build a moon base using the materials in the box or materials at home.

Kindergarten K-2.DT.2.b.: Demonstrate the ability to follow a simple design process: identify a problem, think about ways to solve the problem, develop possible solutions, and share and evaluate solutions with others.

Third Grade 3-5.DT.2.b.: Plan and implement a design process: identify a problem, think about ways to solve the problem, develop possible solutions, test and evaluate solution(s), present a possible solution, and redesign to improve the solution.

Sixth Grade 6-8.DT.2.d.: Consider multiple factors, including criteria and constraints, (e.g., research, cost, time, materials, feedback, safety) to justify decisions when developing products and systems to solve problems.



Impact Craters

In this activity, each child will act as an astronaut that is collecting scientific data on the moon. Using supplies in the box, they will drop “meteoroids” and gather data on impact craters from their experiment.

Second Grade 2.MD.1: Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

Third Grade 3.MD.4: Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.

Fifth Grade 5.ESS.1: The solar system includes the sun and all celestial bodies that orbit the sun. Each planet in the solar system has unique characteristics.

Seventh Grade 7.G.4: Work with circles



Back to Earth- Build a Parachute

In this activity, each child will wrap up their trip to the moon with putting their engineering skills to the test one last time and designing the perfect parachute to return the astronaut back to earth.

Kindergarten K-2.DT.2.b.: Demonstrate the ability to follow a simple design process: identify a problem, think about ways to solve the problem, develop possible solutions, and share and evaluate solutions with others.

Third Grade 3-5.DT.2.b.: Plan and implement a design process: identify a problem, think about ways to solve the problem, develop possible solutions, test and evaluate solution(s), present a possible solution, and redesign to improve the solution.

Second Grade 2.ESS.1: The atmosphere is primarily made up of air.

Sixth Grade 6.PS.4: An object’s motion can be described by its speed and the direction in which it is moving.

High School Physics P.F.5: Air resistance and drag

The activity book will also provide opportunities to write down scientific findings and connect to digital learning resources through COSI Connects. This will allow each child to also meet numerous English Language Arts and Technology and Digital Literacy Learning standards.



Required Library Survey

Congratulations on your COSI Learning Lunchbox Kits! Please complete this questionnaire after you have spent some time exploring the Learning Lunchbox at your organization. We value your thoughts, and your responses are VERY important to COSI in making this the best experience for learners. This questionnaire should take you no more than 5 quick minutes to complete. THANK YOU for your support and service to Ohio's learners. If you have any questions, feel free to contact Madison Venables at cosieducation@cosi.org or 614.715.3037. You may also email your completed form or complete it **online** here: [Online Version of Survey CLICK HERE](#) OR scan this **QR Code**:

Please remember to complete the front and back of the questionnaire.
Thank you for your support and service to our students!



Theme of Learning Lunchbox:

	Space	Energy	Water	Nature	Dinosaurs	Human Body	Hyperloop
What was the theme of your Learning Lunchbox?	<input type="checkbox"/>						

	Yes	No
Did you experience the Learning Lunchbox kit activities with the learners?	<input type="checkbox"/>	<input type="checkbox"/>

If you witnessed learners exploring activities from the Learning Lunchbox Kit, please respond to the following statements according to how much you agree:

	0=Not at all	1=A little	2=Moderate amount	3=A lot	4=A huge amount
The Learning Lunchbox activities were engaging and held the learners' interest	<input type="checkbox"/>				
The learners used a skill related to science literacy	<input type="checkbox"/>				
The learners expressed wonder, excitement, and enthusiasm around the topic of the kit	<input type="checkbox"/>				
The learners became aware of a career related to the topic of the kit	<input type="checkbox"/>				
Do you feel that the Learning Lunchbox kits helped reach those that may be underserved in the community?	<input type="checkbox"/>				

What is the name of your library and zip code?:

1. Please respond to the following statements according to how much you agree:

	Not at all	A little	A Moderate amount	A lot	A huge amount
COVID-19 pandemic created challenges in learning	<input type="checkbox"/>				
The Learning Lunchbox is a tool to help engage learners in science	<input type="checkbox"/>				

2. Please ask answer the following two questions after engaging with your students:

	School-age	Families	Both	Other
Who received the Learning Lunchbox kits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Please ask answer the following question:

	During a program or event	Families registered and picked up from organization	Other
How did you distribute the Learning Lunchbox kits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Do you have additional thoughts or comments about your experience with the Learning Lunchbox kits?

What would be another Learning Lunchbox topic you would like to do?

INFOHIO AND COSI STEM BEACH BINGO CHALLENGE

activities for parents and caregivers engaging
kids in accelerated summer learning

GRAB YOUR SHOVEL AND DIG IN TO SOME FUN INFOHIO AND COSI ACTIVITIES THIS SUMMER!

1. Working with a parent, sibling, grown-up, or by yourself, follow the directions on each square.
2. After you complete the activity, share what you learned with your parent, sibling, or a grown-up.
3. Challenge yourself to complete all the activities to make a BINGO!
4. Celebrate your BINGO and grab a certificate and digital badge here:
<http://bit.ly/INFOhioBadgeCOSI>.

Access each activity by scanning the QR code or typing <http://bit.ly/INFOhioBeachBingoCOSI> in your browser. Then, click the square to go to the activity's resource. If you are in Ohio, you should be logged in to INFOhio automatically. If you are having problems logging in, watch this video: <http://bit.ly/INFOhioLoginHelp> or contact support.infohio.org.



INFOhio
OHIO'S PreK-12 DIGITAL LIBRARY

www.infohio.org

COSI
Center of Science and Industry
www.cosi.org



click the square to get to
the activity's resource

INFOHIO AND COSI STEM BEACH BINGO CHALLENGE

activities for parents and caregivers engaging
kids in accelerated summer learning

DISCOVER OCEAN LIFE

- Read or listen to the fiction and nonfiction pair, *My Home in the Water* and *Peanut Butter and Jellyfish*.
- Complete the Fact or Fiction game to learn the difference between fact and fiction.
- Can you explain to your parent, sibling, or grown-up what fiction means?

WHOOO LOVES OWLS?

- Complete the Owl and Mouse activity from COSI.
- Then, go to www.infohio.org and find BookFlix in Grades K-5. Search for and read Owls in BookFlix.
- Explore and learn more about owls from the websites in the Dive Deeper section.
- What are 3 fun facts that you learned about owls? Share with a parent, sibling, or grown-up.

WISH UPON A STAR

- What's that in the sky? A shooting star? Learn more meteors in the Impact Craters activity from COSI Connects.
- Then, search Highlights Library on www.infohio.org using the keyword "meteor" for stories and eBooks about meteors.
- Select an eBook and read it with your parent, sibling, or grown-up.

DREAM BIG

- Complete the Art and Technology activity from COSI Connects, and explore careers that combine art and technology.
- Then, go to iwonder.infohio.org and search for Career Stop.
- Search for careers that combine art and technology.

COMPARE ANIMALS

- Try the Animal Guessing Game from COSI.
- Then, go to www.infohio.org and find World Book Kids in Grades K-5.
- Find World of Animals at the bottom of World Book Kids.
- Can you find the answers to these questions: Who weighs more, a platypus or otter? A seal or walrus? A hammerhead shark or octopus?

EXPLORE OUTDOORS

- Use the family Science, Technology, Engineering, Math (STEM) Summer Camp Deck kits to explore the world around you.
- Go on a photo scavenger hunt, create a nature fort, or make a human sundial with your parent, sibling, or grown-up.

REACH FOR THE STARS

- Summer time is the perfect time for stargazing. Learn more about the Milky Way from World Book Student.
- Follow the link, read the Milky Way article, and click on the pictures.
- Bump, set, and spike your way through the Galaxy Volleyball Game located in the article.

GET YOUR GAME ON

- Read about the Ocean in World Book Student and play the Whirly Wave game to increase your understanding of ocean currents by getting your droplet of water to safety!

HELP OCEAN ANIMALS

- Go to Highlights Library and search for "Sea Life."
- Read *Endangered: Sea Life* with your parent, sibling, or grown-up.
- Draw a picture of an endangered sea creature you learned about.
- How can we help animals that are endangered?



SHOW WHAT YOU KNOW!



With a family member, tag @INFOhio and @COSI on Facebook, Twitter, or Instagram with #INFOhioWorks and share your badge and certificate!





teach with us.

COSI believes science is
everywhere and for **everyone**.



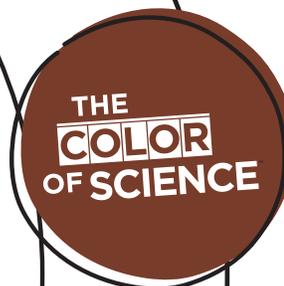
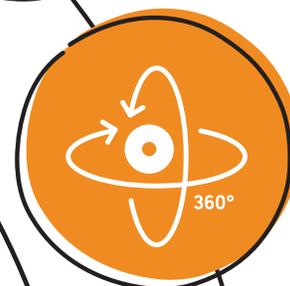
named
**#1 Science Museum
in the Nation** by
- USA TODAY 10Best
Readers' Choice



your resource for **experiential** learning

The COVID-19 pandemic created a paradigm shift in how education is delivered and threatens to leave vulnerable students further behind than ever. There has never been a clearer need for accessible, high-quality science, technology, engineering, and math (STEM) resources to keep minds engaged, ensure educational needs are met, and provide pathways to STEM careers. COSI - named the #1 Science Museum in the Country by USA Today - is ready to partner with you to engage, inspire, and transform your students.

For more info, email: cosieducation@cosi.org



COSI
engages,
inspires, &
transforms
today's students

kits

COSI connects

kit themes:



Water



Nature



Space



Human Body



Dinosaur



A Dinosaur Story



Energy

COMING SOON

COSI connects kits

What's in the box?

A COSI Connects Kit includes everything a student needs to complete five hands-on STEM activities focused on an exciting science theme. These kits come with every ingredient: no need to search through the supply closet. Go birdwatching and note your observations with the Nature Kit, learn why certain objects float and others sink with the Water Kit, build a moonbase with the Space Kit, and more.



Online at cosi.org/kits

COSI connects
learning
lunchbox



COSI can work with your school to determine the availability of publicly-funded versions of its hands-on STEM kits. For details, email learninglunchboxes@cosi.org and ask about COSI Learning Lunchboxes.



COSI connects web portal



Bridge the digital divide, promote digital literacy, and address science education needs with COSI Connects. The free COSI Connects web portal launches students of all ages into a universe of science through online videos, activities, and a mobile app that lets students explore science even when offline.

Online at cosi.org/connects



**COSI CONNECTS
INITIATIVE
SUPPORT**

PRESENTING:



VICTOR'S SECRET / PINK / BATH & BODY WORKS

SUPPORTING:



JPMORGAN CHASE & CO.



online
**professional
development**



Learn to use COSI Connects Kits in your classroom and across disciplines. Add a 60-minute digital professional development workshop to your COSI Connects Kits experience. For details, call **614.228.2674** or email **cosieducation@cosi.org**.



COSI connects **curbside**

COSI Connects Curbside brings science to school parking lots, parks, and other outdoor locations. Our mobile unit features Wi-Fi and serves as a FREE internet hotspot location.

Students and families can download STEM content from the COSI Connects Mobile App while a trained COSI science educator distributes science activities for students to take home.

Online at:
cosi.org/connects/curbside



COSI connects
live



COSI connects **live**

COSI Connects Live connects students with scientists, doctors, and COSI educators for a LIVE interactive two-way experience. Award-winning programs are available on demand or during a pre-scheduled connection and are ideal for the classroom, home learning, or both at the same time.

Online at:
cosi.org/connects/connects-live

QED with Dr. B

Check out COSI's own Dr. Frederic Bertley (a.k.a. "Dr. B") on QED with Dr. B, a new science show that airs each Wednesday at 7:30 p.m. on WOSU TV. For more information and to watch full episodes on demand, visit cosi.org/qed-dr-b.

new

digital day **exploring ecology** package

Your entire school can take a digital journey through prairies, forests, and wetlands through this package of virtual ecology programs for grades Pre-K to 6. COSI's Digital Day includes a full day of live programs for up to 500 participants. We'll kick things off with a schoolwide, 45-minute digital assembly where we journey through four Midwestern habitats. After that, we'll break out with 1-2 classrooms at a time to meet one of COSI's animals or learn about animal constellations through a virtual presentation in COSI's Planetarium.

Online at:
cosi.org/connects/connects-live

**EXPLORING
Ecology**
digital day



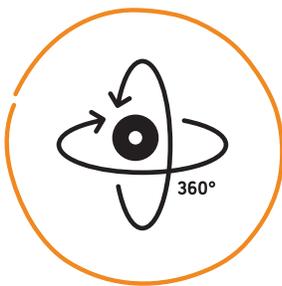


COSI **field trips**

Let a field trip to COSI be the capstone experience of a school year spent exploring science. Galleries featuring world-class exhibitions, live shows, COSI's little kidspace®, and Ohio's largest

Planetarium await you and your students in Columbus. Field trip reservations for the 2021-2022 school year are now being accepted. Financial assistance is available for eligible groups through COSI's Community Access Program. For details, call **614.228.2674** or email **call_center@cosi.org**.

Online at: cosi.org/educators/field-trips



virtual COSI **field trips & tours**



COSI Connects Plus offers virtual tours of selected COSI exhibitions and is included with Ultimate and Premium COSI Memberships. Become a Member today or make a donation in any amount for COSI Connects Plus access for 30 days.

Online at: cosi.org/virtual-tours



color of science digital series

Hosted by COSI President and CEO, Dr. Frederic Bertley, the monthly Color of Science Digital Series features live one-on-one interviews with today's brightest scientists. Join us virtually on the first Thursday of each month from 12-1 pm, as we celebrate diversity in STEM and highlight the incredible contributions to science and technology made by women, persons of color, or members of the LGBT community.

Online at: cosi.org/connects/color-of-science

PRESENTING
SPONSOR:



LEAD
FUNDER:

The Curtis T. and
Beverly Cheeks-Jewell
Family Fund



COSI-fy your STEM learning onsite, offsite, & online

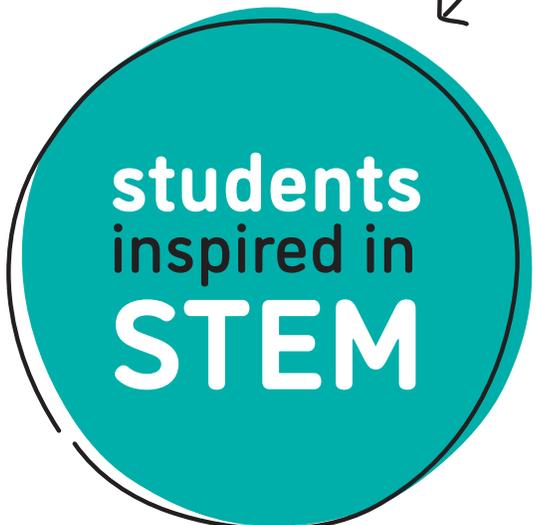
Mix and match COSI Connects resources and experiences to meet your STEM needs!



Ready to assemble your ideal "COSI-fied" STEM package with the help of a COSI Connects Educational Resources Concierge? Email cosieducation@cosi.org or call 614.228.2674 today.



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Thank You!

cosi  connects
learning
lunchbox



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