STEM SAKS
(Science Activity Kits)

Have a WOWtastic time exploring different STEM activities in a bundle at your school and at home!

WE HAVE BUNDLES

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<tr>
<th>Activities</th>
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<tbody>
<tr>
<td>1</td>
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<td>2</td>
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ASK ABOUT AVAILABLE DISCOUNTS!!

If you have any questions, contact Stephanie Hyde
(330) 744-5914 Ext. 104
education@ohwowkids.org
Our Mission

OH WOW!’s colorful, hands-on environment encourages independent thinking through interactive STEM-based exhibits and EDUtaining programs. OH WOW! also believes that beyond our walls the learning can continue. We have developed a digital program that will supplement programming in the classroom and also bring the fun to your home.

STEM SAKs (Science Activity Kits) encourage children to learn through hands-on, imaginative play and critical thinking. With supplemental curriculum and videos, we have just the right STEM SAK to help challenge your child or student in the most fun, educative way!

Engineering Institutes: Preschool - Kindergarten

Three Little Pigs

Each student will design a house for their “little pig”. The house needs to be able to withstand the “Big Bad Wolf” and not fall down.

OH: PS.K.1    PA: 3.2.K.A1

Confetti Poppers

Are you ready for a popping good time? This STEM-based activity will have your students excited about learning about potential and kinetic energy.

OH: PS.K.1    PA: 3.2.PK.B6

Static Electricity Butterfly

With this fun, static electricity experiment, we will demonstrate the effects of what will happen if we charge a balloon by rubbing it on our hair or shirt and then hold it over tissue paper wings of a butterfly.

OH: K.LS.1, K.PS.2, 1.PS.2    PA: 3.2.PK.B1

Sound Sleuths

This exploratory workshop allows students to practice inquiry methods. Students will experiment with 3 different musical instruments to take home. They will make and test their own kazooos, cup phones, and rattle drums.

OH: K.PS.2    PA: 3.2.PK.B5
**Engineering Institutes: Preschool - Kindergarten**

**Sensory Sea Animal Rescue**
Can you rescue the sea animals from the mixture that you created? While making this sensory sensitive sea animal rescue, your children will strengthen their fine motor skills, senses, language development, brain growth, and enhance their memory. Use this to calm anxiety and relieve stress.

**OH:** LS.K.1, LS.1.1.1  
**NGSS:** MS-LS2-3  
**PA:** 3.2.PK.B6, 3.2.B6

**Bubble Snake**
We are used to bubbles floating but imagine creating a chain of bubbles. Learn how light travels through bubbles. Use a magnifying glass to inspect the bubbles and observe what you see. How long can you make your bubble snake? How long can you make it last?

**OH:** PS.K.1, K.G.A.3, K.G.B.6  
**PA:** CC.2.3.K.A.1, 3.2.K.A5

**Tornado in a Bottle**
Ever wonder why the middle of a tornado is super still? Create your own tornado and watch what happens? Relate this to natural forces in the world and learn how they are very destructive. Learn how the laws of physics apply no matter the scale.

**OH:** ESS.K.1, 2.ESS.3  
**PA:** 3.3.KA5

**Kinetic Moon Sand**
Activate your inner Astronaut and play on the moon. Along with engaging in sensory play, learn about the different states of matter behind the kinetic sand and what keeps it together?

**OH:** PS.K.1  
**PA:** 3.2.K.A5

**A Touch for Reading and Writing**
Let your children experience this literacy event from start to finish with braille. Learn a different form of communication. Send messages to your pals. Playfully explore reading, writing, and STEM through this engaging STEM activity.

**OH:** PS.K.1  
**PA:** 3.2.K.A5
Engineering Institutes:
1st grade - 3rd grade

Bath Fizzies
Mind your matters with Bath Fizzies! Students will explore solids and liquids through a hands-on activity and demonstration. Students will be able to take home their own bath fizzy.

OH: PS.1.1.1, PS.3.2.1, PS3.2.3
PA: 3.2.1.A3, 3.2.2.A5, 3.2.3.A1, 3.2.1.A4, 3.2.3.A5

Sensory Stress Ball
Less Stress: This is a great sensory activity where your students can design and build their own sensory stress ball.

OH: PS.3.2.2 PA: 3.2.3.A2

DIY Kaleidoscope
In this STEM activity, students will get to design their own kaleidoscope and explore topics about light, reflection and symmetry.

OH: 3.PS.3 PA: 3.2.3.B5

Boat Building Challenge
This exploratory workshop allows student to investigate different objects based on their characteristics and whether they sink or float.

OH: PS.2.1.3, PS.1.1
PA: 3.2.1.A, 3.2.2.A5, 3.2.3.A5

Engineering Institutes:
1st grade - 3rd grade

Bird Feeder Ornament
Feed the birds with this interactive make your own bird feeder. Learn the chemistry of mixing gelatin and other ingredients together all while feeding the birds and learning about the environment.

OH: PS.3.2.1, PS.3.2.2, PS.3.2.3
PA: 3.2.3.A2, 3.2.3.A3

DIY Soap
Explore while learning about the antibacterial properties of hand soap and the environmental factors associated with making your own soap. Learn about the natural bacteria your skin needs to survive as well as the process that is used.

*requires use of microwave or stovetop

OH: LS.1.1.3, P.S.3..2, PS .1.1.1
PA: 3.2.3.A2, 3.2.3.A3

DIY Sidewalk Chalk
Who doesn’t love to color on the sidewalk outside in the nice warm weather. Now, you can make your own chalk! Learn about the different states of matter and relax while you enjoy your new hobby outside.

OH: PS.1.1 PA: 3.2.C.B3

Magnet Drive
Who doesn’t love to color on the sidewalk outside in the nice warm weather. Now, you can make your own chalk! Learn about the different states of matter and relax while you enjoy your new hobby outside.

OH: PS.2.1.3, PS.3.3.1 PA: 3.2.3.B4
**Engineering Institutes:**

**1st grade - 3rd grade**

**Taking Flight**
While assembling a glider, helicopter, and creating a blimp, experience flight and what can limit it. Observing the designs and weight of materials can help with coming to conclusions about the Laws of Motion.

OH: PS.2.1.1  PA: 3.2.3.B1

**DIY Suncatcher**
Colors play a big role in a suncatcher. As the sun rays hit the colored surface, the light comes through. Observe the magical dance of color in this colored glass activity.

OH: ESS.1.1.1, LS.1.1.2  PA: 3.2.1.B6, 3.2.3.B4, 3.4.3.C2

**Lava Lamp**
What happens when you combine a liquid with a liquid? You think you know? Test your knowledge with this interactive lava lamp and explore density at its calmest.

OH: PS.1.1.1  PA: 3.2.K.A3

**DIY Microscope**
Now only construct your own microscope you can take anywhere, but put anything under it as well! Investigate the physical appearance of anything!

OH: LS.3.2.1  PA: 3.1.4.A3

**Solar System Scroll**
Be an astronomer as your jump from planet to planet in your own scale sized solar system right in your pocket. Discover the other objects out there and learn about the life of space.

OH: PS.3.1.1  PA: 3.2.3.A2

**Phun with Physics**
Whip your way around with these five phun interactive physics toys. Expand on the various types of motion and the laws that coincide.

OH: PS.1.2.1  PA: 3.2.1.B1
LED Cards
This STEM activity will show you how to create simple paper circuitry using copper tape, a coin battery and an LED light. Students will have an understanding of how circuits work.

OH: PS.4.2.2  PA: 3.2.4.B4

Lunar Lander Challenge
Landing on the moon is tricky! In this challenge, it will be your job to design and build a lander that will protect two astronauts when they touch down on the moon.

OH: PS.5.1.2  PA: 3.3.6.B1

Mystery STEM Challenge
In this design activity, students will be given a bag of mystery materials and a challenge card. Following the challenge on the card, students will use the materials to complete the challenge.

PA: 3.4.10.C2, 3.4.10.E7

WOWtastic Spirograph
You can make your very own circle making device! In this physics STEM SAK, learn about the basics of circuits and energy. Start physics off with a spin down the right path.

OH: PS.4.2.4  PA: 3.2.4.B4, 3.2.4.B5

Conductive Playdough
In this exciting STEM activity, students will make their own conductive playdough in order to learn the basics of electrical circuits. A perfect combination of play and learning!

*requires use of microwave or stovetop

OH: PS.4.2.2, PS.4.2.3, PS.7.3.4  PA: 3.2.6.B3

Dinosaur Eruption
Be ready to blow the top off of this STEM activity with a thrilling adventure that takes you through building a volcano and making it explode. Use this to discuss environmental factors and the chemical reactions that take place.

OH: B.2.2, ES.3.5, LS.7.1.1, LS.2.1.1, PS.1.5  PA: 3.1.7.C2

A Different Light
Did you know there is light we can’t see? Learn about the Electromagnetic Spectrum and about what our eyes can and cannot see.

OH: PS.5.2.1  NGSS: HS-LS1-1, HS-LS3-1  PA: 3.1.5.A5
Engineering Institute
4th grade and up

DNA Necklace
A fun and fascinating activity that not only shows how to isolate your DNA, it lets you create a DNA necklace to actually wear.

OH: LS.3.1.2
NGSS: HS-LS1-1, HS-LS3-1
PA: 3.1.5.A5

Wiggle Bot
A very simple first robotics project for kids using household materials and an electric toothbrush motor.

OH: PS.4.2.3, PS.5.2.2, 5-8.SP.2
PA: 3.2.4.4, 3.2.5.B5

Fossil Dig
Do you want to become your very own Paleontologist? Now you can! Explore the different types of matter and learn about how fossils are created. Link this to biology and learn which animals were in each era.

OH: 4.1.1
PA: 3.2.4.A4

Right Through the Heart
Did you ever wander how your heart works? Now you can make your very own heart pump and simulate how half of your heart works? Learn about the pressures of blood flow through your heart.

OH: LS.5.2.3
PA: 3.2.4.A4

Calling all Educators!
Let OH WOW! challenge and excite your students with our hands-on, interactive STEM-based exhibits, each one linked to Ohio and Pennsylvania content standards.

Self-Guided Field Trips
OH WOW!’s mission promotes exploratory and discovery learning. Self-guided field trips challenge teachers and their students to apply classroom knowledge in an environment designed for inquiry-based learning.

- $5 per student (Maximum amount of students limited due to COVID)
- 1 adult for every 5 students = FREE, additional adults are $5 each.
- Groups with less than 15 will be charged the minimum rate of $75.

Staff-Guided Field Trips:
At OH WOW! we can customize your field trip to include content-specific activities. We will work with you to make your trip an “EDUtaining” experience with one of our engineering institutes

- $10 per student (Maximum amount of students limited due to COVID)
- 1 adult for every 5 students= FREE, additional adults are $5 each.
- Groups with less than 15 will be charged the minimum rate of $150.

*Advance reservation and $50 deposit or a purchase order are required to secure your preferred date.
Can’t make it to the Museum?
Let us bring the museum to you!

Ask About Digital Programs with one of our WOWtastic WOW! Pals

Our programs are designed to connect with the Ohio and Pennsylvania content standards. Our activities support STEM based learning that is “EDUtaining”.

Contact us for more information:
(330) 744-5914
education@ohwowkids.org