

MOBILE ED PRESENTS



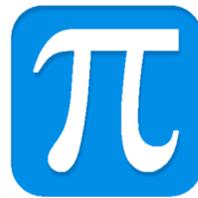
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MOBILE HANDS-ON MUSEUM

INFORMATION PACKET

What if you could truly bring the experience of visiting a science museum right to your school?

Wouldn't that be great? Being able to save on not only admission costs, but transportation fees as well? Not having to deal with the hassles of permission slips or taking an entire day away from your curriculum requirements? That sure would be nice.

Well, now you can.

Say hello to Mobile Ed's *STEM Museum*. This all-new touring program turns your gymnasium or multipurpose room into a state-of-the-art hands-on children's museum focused on STEM education. With multiple activities suitable for all ages, you'll find workstations to not only augment your existing science and math curriculum, but expose your students to high-tech fields of study they never before had access to.

Throughout the pages of this packet you will get a glimpse at some of the activities waiting for you and your students inside the *STEM Museum*. You will also see just how easy it is to host this event with clear descriptions of setup and tear-down procedures making sure you know exactly what to expect when we arrive.

This is the sort of hands-on experience Mobile Ed has wanted to bring to you since our beginning in 1979 and now, we finally can.

Thank you for your interest in *STEM Museum*! Enjoy the tour.

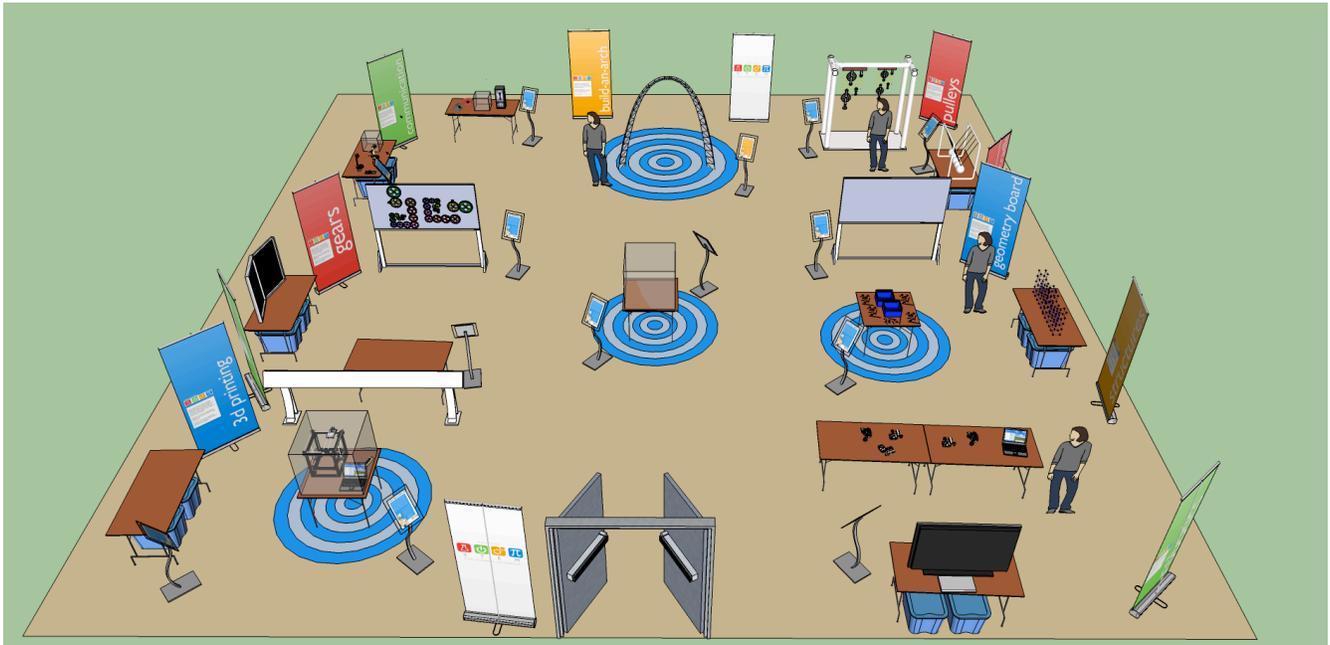
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800-433-7459

www.mobileedproductions.com

The Layout

With multiple activities, the *STEM Museum* has something for everybody of all grade levels and interests. Students are encouraged to explore the museum and manage their time between stations that appeal to their individual interests. Adult supervision from the Mobile Ed presenter and a minimum of 4 parent volunteers will be present at some of the stations to not only supervise but to positively enhance the experience with small group instruction.



An overview of STEM Museum as shown set up in a 50'x50' area. The program can be set up in any gymnasium or multipurpose room with approximately 250 square feet.

The stations are arranged in a “horseshoe” facing away from the main entrance to the room. The above arrangement is ideal for balancing student traffic as well as spreading out the adult volunteers to cover the entire setup.

Note: the people in the diagrams above and below represent the locations of the adult volunteers.



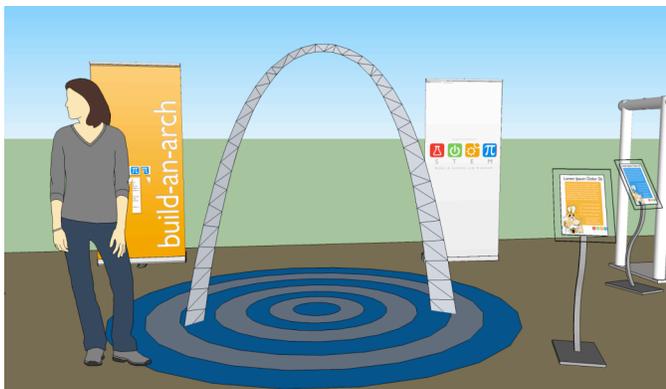
The Activities

STEM Museum truly has something for everyone! From building an arch to programming a robot, we bring experiences your students might not ever have had before right to your doorstep – and plenty of them! With multiple activities you might need a second visit to see it all!

Here is an overview of just a few of the interactive stations we have available for your school.

3D Printer

A demonstration of a state-of-the-art 3D printer in action. Students watch as the printer creates a 3D model while it's visible on a computer monitor right before their eyes. Example models are on display of other practical (and just plain fun) objects that can be made with a 3D printer. Furthermore, students are encouraged to think of other applications for 3D printers as they explore a display about extruded manufacturing.



Build-an-Arch

Build a parabolic arch out of large kid-friendly foam blocks (with the help of a parent volunteer) and learn how this incredibly strong structure functions in the process. See how the ancient Roman's used this structure in their buildings, how American's used it in the St. Louis Gateway Arch, discover how force is dispersed, how a keystone works, and then knock it all down!

Pulley Power

Test three different pulley designs to see which one most effectively lifts the weight with this impressive freestanding workstation. Compare with the force used to lift the weight without any assistance from a machine and learn about everyday uses for pulleys.

Structures Building Station

Use our huge collection of the popular building toy K'nex to create structures using responsible engineering techniques. We provide examples of bridges, towers and vehicles all constructed with real-world tolerances in mind and let you build the tallest, strongest, or just plain coolest structure you can imagine!

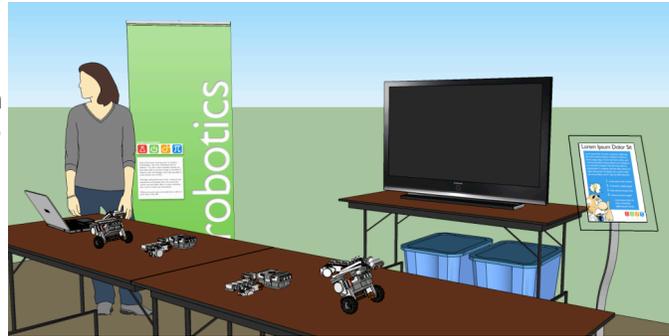


Newton's Cradle

Explore the Law of Conservation of energy with this classic physics display -- supersized using billiard balls! Try different combinations to see how the energy of the motion always balances out in the end.

Programmable Robots

Program two different robots and see how they can use their sensors to do a variety of tasks with a parent volunteer. We also have prepared a HD video presentation about the history of robotics, practical applications for robots, and even a glimpse into the future of this exciting field that will be looping on a large flat-panel TV throughout the day. With multimedia and an opportunity to do some practical programming, your students will get an incredible exposure to the fast-moving field of robotics.



The History of Communication

A collection fit for any museum showcasing the evolution of human communication. See and use signal flags, a telegraph key, and even an authentic reproduction of Alexander Graham Bell's first prototype telephone! There are also rotary phones, a real pay phone, and interesting photographs and documentation rounding out the exhibit. In this day where children don't know what life was like before the internet, this exhibit is both eye-opening and inspiring, giving your students a chance to see where the devices they use everyday came from.

And much, much more!

Setup

As you can see, *STEM Museum* is not your ordinary school assembly program! With so many stations and interactive opportunities *STEM* requires more setup than you might usually be used to from a Mobile Ed visit. Fear not! We have it figured out so it's not much hassle, and well worth it!

Volunteers

The key to a smooth day of *STEM* is parent volunteers. We require at least 4 adult volunteers and can make use of up to 8 willing and able bodies. We ask that these volunteers be adults (preferably parents) over the age of 18. Some volunteers will be in charge of "running" their given station, while others will assist the Mobile Ed performer in "patrolling" the museum, helping out where they can.

The Start of the Day

With 2 volunteers on hand at the beginning of the day to load-in and set-up, the *STEM Museum* can be set up in under two hours. We will arrive at your building at least 2 hours before the scheduled start time where our presenter will meet with the volunteers. The show comes in numerous cases, which are wheeled into the area where the Museum is to be set up. With a bit of cooperation, the volunteers and the performer should have the show set up in no time!

Facility Requirements:

4-8 adult volunteers

a 50'x50' room (or equivalent square footage) for the entire day

2 electrical outlets (1 20 amp circuit)

13 6' or 8' tables

6 chairs

2 hours to load-in and set up

2 hours to tear down and load-out

We bring everything else!

Please Note: The STEM Museum cannot be taken up and down stairs.

Instruction

Once the equipment is in place, the Mobile Ed presenter will use the remaining time to instruct the volunteers how to run their designated station. This may involve basic computer programming, building with a variety of building toys, or assisting in the operation and instruction of some science museum-style exhibits.

Open for Business!

Once everything is set up, plugged in, powered on, and the volunteers know what they're doing, the *STEM Museum* is open for business! We can accommodate groups with a maximum of 60 students throughout a day in up to 8, 45-minute sessions. We can do shorter sessions too if needed – we're flexible! We might also be able to swing a 9th session at an additional fee, but make sure to check with your sales agent.

Questions?

After all of that, we know you're excited and can't wait to bring the *STEM Museum* to your students. We tried our best to cover all the bases here in this packet, but you probably still have a thousand lingering questions. Hey, that's cool – we're here to help!

The fastest way to get the answers you're looking for (or just to get your day of *STEM* scheduled already!) is to pick up the phone and give us a call at **800-433-7459**. We're at our desks from 8:30 AM EST Monday through Friday for all your questions and concerns.

You can also visit our website at www.mobileedproductions.com and find out who your local regional manager is for your territory. Then, you can shoot them an email and get in touch with us that way.

However you get a hold of us, do it fast! We've never experienced demand for a program like we have for *STEM Museum* and we're already running out of dates.



Brought to you by...

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Thank you again for your interest in bringing the future of science education to your school. We hope to see you in the *STEM Museum* soon!

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MOBILE HANDS-ON MUSEUM

STEM Museum: Mobile Hands-On Museum

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