

PRESS FIT BOX

One Hour Mini Workshop

A Hands on STEM Experiment!

Students will work collaboratively to learn build a cubic box and explore its surface area and volume!

MC2STEM's Mobile Fab Lab's One Hour Mini Workshops are a great way to get your students excited about science and a simple introduction to Making and using Fabrication in the classroom! A member of our Fab Team will come to your classroom with all the necessary supplies to get your kids thinking and tinkering!

Each workshop is designed to be done in one hour with approximately 25 students, please contact the MFL team if you have any questions or would like to discuss a longer workshop or a full week visit!

How does this Activity Work?

The Fab Lab Team will come to your classroom with all necessary materials. Depending on the grade level of your students the activity will slightly vary. Students will start by looking at the flat piece of cardboard to hypothesize the largest amount of volume we can create in a cubic box. Students will then create their box and find the area and the volume taking into consideration the notches in the box.

Next the students will complete a worksheet to explore boxes with different volumes and surface areas to discuss optimization and find a solution to the biggest box challenge question that was given to them at the beginning of the activity.

Major Skill: Surface Area and Volume of a Rectangular Prism

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Perfect for 4-8 graders

This is great for upper elementary and middle school students!

Interdisciplinary Skills

Math! Surface Area and Volume

Art! Decorate your box

