Our doors might be closed, but the STEM discovery doesn’t have to stop.

You can now join a Museum Educator via a Zoom meeting for a live digital STEM activity!
Check out our menu of offerings below. If you’d like to book a live digital activity, email us at education@smv.org to select your activity, date and time.

### Science Demonstrations
Engage with a Museum Educator as you explore anatomy, chemistry and physics! Each demo runs approximately 25 minutes.

**Cow Eye Dissection** Grades 5 – 12
You won’t believe your eyes! Watch an educator dissect a cow eye while explaining its different parts and functions. Can cows see color? Do our eyes change over time? Learn about the eye-brain system by comparing the difference between human eyes and cow eyes.

**Heart Dissection** Grades 5 – 12
Watch an educator dissect a sheep heart while explaining its different parts and functions. How does your heart work? Learn about the cardiovascular system by comparing a sheep heart to a human one.

**Amazing Animals** Grades K – 6
Have an up close encounter with snakes and cockroaches! Find out what different animals need to survive in their environment. And come on, who doesn’t love animals?

**Radical Reactions** Grades 6 – 12
Chemistry is at its coolest when you put it into action! See four types of chemical reactions, learn the difference between exothermic and endothermic reactions, and watch a colorless liquid turn blue once shaken...not stirred.

**Simple Machines** Grades 3 – 5
Can you name all 6 types of simple machines? Learn how simple machines work and observe simple machines in action.

**Science on a Sphere** Grades 2 – 10
Using the Museum’s Science On a Sphere, Museum educators use datasets from NOAA to bring science to life. Learn the basics of weather and seasonal changes, uncover the difference between weather and climate, see where volcanoes are located, watch earthquakes happen in real time and more!

### Engineering Challenges
Investigate scientific phenomena with a Museum Educator while working collaboratively to imagine, plan, create, test and improve on solutions to design challenges. We’ll send you a list of things you need to have ready before the lesson, and lessons can be tailored for any age group. Each challenge runs approximately 30 minutes.

**Forces of Flight**
Explore the four forces of flight and discover the fun of scientific investigation while designing and testing your own paper airplane. Is yours better than our educator’s?

**Build a Better Parachute**
Gather your supplies and your favorite small object and work with us to design a better parachute! We’ll practice our engineering skills as we work on this challenge together.

**Sound Science Jam**
Jam with us and learn about the science of sound as we create an orchestra from found objects in our home.

Also, don’t forget to check us out on social because we’re sharing all kinds of great content across all platforms daily!

Digital Demos from the Science Museum of Virginia

Looking for something different?
Let us know and we’ll put our heads together to see if we can make it happen.