



Digital Demos

with the Science Museum of Virginia

Bring the Museum to you with a live, virtual Digital Demo! Our virtual lessons are highly interactive and designed to involve students in STEM through inquiry, hands-on activities and demonstrations.

These workshops are designed for school audiences and aligned with the Virginia SOLs but are easily adjustable to fit the learning level of any group.



Digital Demos range in length from 30-45 minutes. Fees for a Digital Demo are based on class size:

1–30 students are recognized as one class

31–60 students are recognized as two classes

61–90 students are recognized as three classes

Digital Demos are \$150 per classroom; \$125 for each additional class (over 30 students or consecutive classes on the same day).

We have grant funding available to make digital demos accessible to all.

To request aid for your upcoming adventure, simply email groupsales@smv.org and include your organization's information, mission and verification of your Title 1 or low-income status.

Demos are available Monday – Friday with start times at 9 am, 10 am, 11 am, 1 pm, 2 pm or 3 pm.

Review our menu of offerings and be sure to check out the nitty gritty about booking, technology requirements and how to best prepare for your Digital Demo on page three.

Questions? Hit us up at groupsales@smv.org or 804.864.1400!

smv.org

Special thanks to our premier partner:





Science Demonstrations

MAX 90 STUDENTS

Engage with a Museum educator as you explore anatomy, chemistry and physics!

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.

SOLs LS 2; BIO 3; PH 6

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.

SOLs LS 2; BIO 3; PH 6

Brain Dissection Grades 5–12

Watch an educator dissect a sheep brain while learning its different parts and functions. How does your brain work? We'll cover the brain and its role in the nervous system.

SOLs LS 2; BIO 3; PH 6

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.

SOLs 6th 5; PS 3; CH 5, 7

Supercool Grades 2–8

How do solids, liquids and gases react to extremely cold temperatures? Watch wide-eyed as pennies shatter, balloons shrink and plants crumble. Observe matter change state right in front of you!

SOLs 2nd 3; 5th 7; 6th 5, 6, 7; PS, 2, 5

Amazing Animals Grades K–2 and 3–7

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?

SOLs K 6, 7; 1st 5; 2nd 4, 5; 3rd 4; 4th, 2; LS 6, 7, 8, 11

Hands-on Engineering Challenges

MAX 30 STUDENTS

Have fun with a Museum educator as we investigate scientific phenomena while working collaboratively to imagine, plan, create, test and improve upon solutions to design challenges. We'll send you a list of common materials you will need to have ready before the lesson. We will engage your students during the lesson as they experiment with science together from the comfort of your own home.

Forces of Flight Grades 2–7

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?

SOLs 2nd 2, 3rd 1, 2; 4th, 1, 5th 1, 3; PS 1

Build a Better Parachute Grades 2–7

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.

SOLs 2nd 2, 3rd 1, 2; 4th, 1, 5th 1, 3; PS 1

Don't see what you're looking for?
Contact us and maybe we can put something together!



Preparing for Your Digital Demo

Please review the details below prior to booking a Digital Demo to familiarize yourself with our booking policies, technology requirements and tips for a successful demo.

Booking Policies for Digital Demos

- To book a Digital Demo, reservations must be made at least **two weeks** in advance. Payment is **due two weeks** prior to your Digital Demo and can be made by check or credit card. To pay by credit card, please call us at 804.864.1400. Checks can be mailed to:
Att: Finance
Science Museum of Virginia
2500 W. Broad Street
Richmond, VA, 23220
- If you have to cancel your Digital Demo, we ask that you notify us within **48 business hours** of your visit to receive a refund. Please contact us at groupsales@smv.org or 804.864.1400
- Visits canceled within **48 business hours** will receive a refund, less a \$95 administrative fee.

Technology Requirements

- We will connect with you and your students via the Museum's professional Zoom account.
- You will need to download the Zoom meeting client - which can be found at <https://zoom.us/download> - before the Digital Demo.
- For teachers and students learning from home:
Our program will connect to most internet supported hardware such as laptops, desktops and mobile devices that have Zoom installed.
- For teachers and students learning in a classroom:
You need a device connected to the internet (wired is better than wireless) and a webcam/mic to be an interactive participant. Teachers should also be prepared to project the image on a larger screen or smart board and connect the computer audio into speakers for their classes.
- Don't forget to make sure all of your devices are charged/plugged in!

Planning Your Virtual Visit

One-two weeks ahead

- You should receive an **email with program details** and connection links from the Museum at least one week prior to your program. This link will be what you use to log in to the Demo. This link can also be sent to your students if they are learning remotely. We will also provide any handouts needed for your demo at this time.
- If you are familiar with Zoom and distance learning, a test is not required. If you are a new user and /or would like a test, please plan to schedule a 15-minute technology test check at least one week in advance of your scheduled program with one of our educators. You can schedule this test by emailing education@smv.org.

On the day of the event

- Have any materials needed for the lesson ready for your students.
- Please plan to connect 15 minutes prior to your first scheduled session.
- Please have a classroom teacher in the room/on the call at all times because they will be asked to call on students during question and answer interactions and help manage/mute the students as needed.

FAQs

- Who do I contact for assistance on the day of the program?
The best contact will be education@smv.org.
- It's less than a week until my program, and I haven't received an email from you with our lesson details? Who should I contact?
Please reach out to us at education@smv.org.
- Where can I find the handouts, materials needed for my students?
Your educator will email you the materials one week before your program.
- I need to make changes to my reservation. Who should I contact?
Please reach out to groupsales@smv.org to make changes to your Digital Demo.