



DA VINCI  
SCIENCE  
CENTER®

# VIRTUAL STEAM PROGRAMS 2020-2021



## Virtual STEAM

## CLASSROOM



Searching for a way to engage your students in online learning? We have found it! Your students can explore Science, Technology, Engineering, Art, and Math (STEAM) from anywhere with Da Vinci Science Center Virtual STEAM Programs. We bring science to life and lives to science with our usual recipe of hands-on materials, fun activities, and knowledgeable educators.

### Programs Include:

- A materials kit for each student to **keep**
- Materials and instructions for additional activities, games, and challenges
- Activity guides in English and Spanish
- Hour-long sessions with a Da Vinci Science Center educator via ZOOM
- Kit pick-up via curbside pick-up the week prior to your program

### Benefits of Programs Include:

- Limits learning loss, allowing students to continue to learn STEM content and think like scientists and engineers.
- Specific activities that allow students to get to know each other, develop teamwork skills, promote a sense of belonging, and form new friendships.
- Have the most fun with science!



Great for teaching  
core academic standards  
during the day, for after  
school programs, and  
more!

### Single Session Programs

Title	Grade Level	Price per Student
Chemical Excitement	K-5th	\$20*
Color Creations	K-5th	\$20*
Shocking Discoveries	K-5th	\$20*
Animation	4th-12th	\$20*
Paper Circuits	4th-12th	\$20*
Scribbling Machines	4th-12th	\$25*

\*Minimum of 10 students, price includes materials kit

### Multi-Session Programs

Title	Grade Level	# of Sessions	Price per Student
Best of Da Vinci	K-5th	4	\$80*
Wizarding World	K-5th	6	\$120*
Water Wonders	K-5th	5	\$100*
STEAM Club	4th-12th	4	\$85*
Tinkering with Tomorrow's Tech	4th-12th	5	\$175*
Outbreak Alert	6th-8th	6	\$120*

\*Minimum of 10 students, price includes materials kit

See next page for program descriptions.



**Book Your Virtual Program Today!**  
**Call:** 610-841-1875  
**Email:** [virtual@davincisciencecenter.org](mailto:virtual@davincisciencecenter.org)



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## SINGLE SESSION PROGRAMS

- Chemical Excitement - Grades K-5th**  
Practice scientific investigation skills in this inquiry-based chemistry lesson. Students observe and identify physical and chemical changes as they mix substances together, make predictions, and observe what happens.
- Paper Circuits - Grades 4th-12th**  
Learn the basics of electrical engineering and spark creativity in this maker-style interactive classroom experience. Students use electricity to light up their own 2D and 3D projects during an exploration of conductivity and design.
- Scribbling Machines - Grades 4th-12th**  
Construct a motorized scribbling contraption that makes unique artwork all by itself! Students engineer a wiggly machine that can draw on its own in this physics-based design challenge. What scribbles and shapes will your machine create?

- Color Creations - Grades K-5th**  
Unleash your students' creativity and challenge them to think like scientist as we mix primary colors to create a rainbow of different possibilities. Together everyone will hone their observation skills, make predictions, and design experiments as we have fun exploring the physics of color!
- Animation - Grades 4th-12th**  
Discover the science behind your favorite cartoons and stop-motion animation movies, and create your very own moving pictures! Students build a device that demonstrates how a series of still images, presented to the eye in rapid succession, can be perceived by the brain as continuously moving.

## MULTI-SESSION PROGRAMS

- Best of Da Vinci - Grades K-5th**  
Students explore a variety of science topics as they try out some of the Da Vinci Science Center's fan favorite experiments! Physics, Engineering, Electricity, and Chemistry are highlighted in this four week session designed to give participants a hands-on opportunity to practice thinking like a scientist. End the series with a live Mixing Matter Science Show performed by a Da Vinci Science Center educator. This show features hot chemistry experiments and our "superCOOL" liquid nitrogen!
- Water Wonders - Grades K-5th**  
Students uncover the unusual properties of water, an everyday substance that is super special. Water is more than just all wet. It is sticky, strong, and can defy gravity! Suspend water over your head (and stay dry), make water "walk", and compete in the water Olympics to unlock the magic of water. Learn about people's connection to water and how to keep it clean.
- Tinkering with Tomorrow's Tech - Grades 4th-12th**  
Students will work together and solve real world problems with creativity and innovation. Throughout the sessions, students will become familiar with new technologies. They will explore circuit playgrounds to advance their programming knowledge and tinkercad to design solutions.

\*Students must have access to their own computer/laptop. Circuit Playground is a device that students code on to do something and requires a lot of typing and mouse work. Computer/Laptop preferred unless you can use a standard micro USB for an iPad to attach keyboard.

- STEAM Club - Grades 4th-12th**  
Leonardo da Vinci saw connections between many subjects - Science, Technology, Engineering, Art, and Math (STEAM)! Discover your students' boundless ability to be creative, curious, and think like Leonardo! Explore the relationship between multiple disciplines in this four week series as students sharpen their skills at building, animating, creating, and tinkering.
- Outbreak Alert - Grades 6th-8th**  
Can you engineer a solution to a biomedical challenge? In this program, participants learn about the engineering design process and careers in medicine and biology. They will learn how biomedical engineers solve healthcare-related problems and work together to improve the healthcare field. Explore how diseases spread, engineer an antiviral for a contagious virus, create public service announcements to inform the public, and consider what steps you should take to prevent an outbreak from becoming a pandemic.



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**More Virtual STEAM Programs  
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# Virtual STEAM *SHOW*



Available Tuesdays & Thursdays | \$250 per Show for up to 100 Students | 45-60 Minute Session

Have a Da Vinci Science Center educator visit your classroom or home VIRTUALLY, via ZOOM!  
Host a fun interactive learning experience for your school, scout program, or community event with one of three engaging shows.

**Grossology - Grades K-8th**  
Based on the popular children's book by Sylvia Branzei, this program is all about the impolite science of the human body. Grossology is broken up into three segments: Eating, Digesting, and Excreting. No Grossology show would be complete without learning about saliva, peristalsis, and flatulence. GROSSOLOGY™ is a trademark of Price Stern Sloan division of Penguin Group.

**Mixing Matter - Grades K-8th**  
This show introduces students to some truly amazing chemical concepts. In the first half, students learn the basics of chemical reactions. Erupting soap monsters and experiments with fire demonstrate the awesome potentials of mixing matter. The second half highlights the superCOOL side of chemistry as students explore the properties of liquid nitrogen.

**Use the Force - Grades 4th-12th**  
Students review Newton's three laws of motion in exciting ways. Our Scientist will perform great feats of strength and skill with help from the world of physics! Featured experiments include debunking the magicians' tablecloth trick and breaking a board in half (no karate training necessary!).



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## WHAT PEOPLE ARE SAYING ABOUT OUR VIRTUAL PROGRAMS...

"The STEM Kits kept the students engaged and interested. Middle School students asked for MORE science kits from Da Vinci!"

"The kids truly did have a blast with the kits!"

"I felt like a scientist. I learned how to mix colors together to get different colors."



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