Virtual STEAM Programs 2020-2021

Available Monday-Friday | 20 Student Maximum per Session | 10 Student Minimum per Session

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!

Programs Include:

Single Session Programs

<table>
<thead>
<tr>
<th>Title</th>
<th>Grade Level</th>
<th>Price per Student</th>
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<tbody>
<tr>
<td>Chemical Excitement</td>
<td>K-5th</td>
<td>$20*</td>
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<tr>
<td>Color Creations</td>
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<td>Scribbling Machines</td>
<td>4th-12th</td>
<td>$25*</td>
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*Minimum of 10 students, price includes materials kit

Multi-Session Programs

<table>
<thead>
<tr>
<th>Title</th>
<th>Grade Level</th>
<th># of Sessions</th>
<th>Price per Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best of Da Vinci</td>
<td>K-5th</td>
<td>4</td>
<td>$80*</td>
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<tr>
<td>Wizarding World</td>
<td>K-5th</td>
<td>6</td>
<td>$120*</td>
</tr>
<tr>
<td>Water Wonders</td>
<td>K-5th</td>
<td>5</td>
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<td>STEAM Club</td>
<td>4th-12th</td>
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<td>$85*</td>
</tr>
<tr>
<td>Tinkering with Tomorrow’s Tech</td>
<td>4th-12th</td>
<td>5</td>
<td>$175*</td>
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<tr>
<td>Outbreak Alert</td>
<td>6th-8th</td>
<td>6</td>
<td>$120*</td>
</tr>
</tbody>
</table>

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See next page for program descriptions.

Book Your Virtual Program Today!
Call: 610-841-1875
Email: virtual@davincisciencecenter.org
Virtual STEAM

**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.

**Shocking Discoveries** - Grades K-5th
Investigate the mechanics inside a mysterious, glowing, musical ball! In this exploration of materials and conductivity, students discover how this ball uses energy. For the big finale, students create their very own light up 3D toy using raw electrical materials.

**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.

**Color Creations** - Grades K-5th
Unleash your students’ creativity and challenge them to think like a 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.

**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?

**Multiplication 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.

**Wizarding World** - Grades K-5th
Discover the science behind the magic from your favorite School for Witchcraft and Wizardry. Together we’ll explore potions, create castles, and make our own light up wizarding wands!

**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 available at davincisciencecenter.org
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.”

More Virtual STEAM Programs available at davincisciencecenter.org