Promethean® has taken the guesswork out of designing an immersive STEAM learning experience for your classroom. Our professional development team, with over 140 years of combined teaching experience, has researched and tested the best STEAM products to use with Promethean products. Our goal is to help educators effectively implement immersive technologies that transform learning environments and support student achievement.

At the core of our STEAM solution is an all-in-one interactive display called ActivPanel that seamlessly connects devices and content, making engagement easy for both teachers and students. We have brought together a suite of authentic tools that challenge today’s learners to craft solutions for real-world problems, encourage critical thinking, and transform student engagement to create relevant learning connections.

At Promethean, we understand the importance of integrating STEAM disciplines into today’s classroom and support an environment that will inspire students to invent across all grade levels.
Many schools are looking to design innovative STEAM labs within their schools. Promethean has created a list of key items to consider when selecting an interactive display to create a thriving STEAM learning environment:

- Built-In STEAM Essential apps
- Natural writing experience with no delay
- Built-in mirroring for collaborating and sharing
- No software subscription fees and included product updates

How can you use the ActivPanel in your STEAM lab?

1. **Design:** Plan your activities with the whiteboard app
2. **Investigate:** Annotate and screen capture to document your research
3. **Collaborate:** Share ideas with teammates through cloud connect
4. **Execute:** Use Screen Share mirroring to show your concepts and work

The following guide will recommend STEAM tools and apps that can power your STEAM Lab with the Promethean ActivPanel
<table>
<thead>
<tr>
<th>STEAM Apps</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blockly for Dash &amp; Dot robots</td>
<td>All ages. Requires a Bluetooth connection. Take on coding challenges and invent your own creations by using Blockly to control Dash &amp; Dot! Dash and Dot can sync directly to the Titanium ActivPanel, OPS-G and Chromebox via Bluetooth.</td>
</tr>
<tr>
<td>CHEMIST – Virtual Chem Lab</td>
<td>All ages. Paid app. It's your dream virtual chemistry lab. Experiment with various lab equipment, procedures, and chemicals with complete freedom – no need to buy chemicals or clean up afterwards. Perfect for testing, exploring, learning, or just playing around.</td>
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<tr>
<td>Curiscope Virtuali-Tee</td>
<td>All ages. Requires a webcam. The app works in conjunction with their augmented reality t-shirt to bring learning to life with an experience that's unlike anything else. Unlock a detailed and realistic simulation of the anatomy by pointing your camera at the Virtuali-Tee.</td>
</tr>
<tr>
<td>Gizmos &amp; Gadgets</td>
<td>All ages. Requires a Bluetooth connection. LittleBits makes a platform of easy-to-use electronic building blocks that empower everyone to create inventions, large and small.</td>
</tr>
<tr>
<td>MERGE Cube – Object Viewer</td>
<td>All ages. Requires a webcam. Upload, view, and share 3D objects on MERGE Cube! Whether it's a sculpture of Michelangelo's David or an original work of 3D art that you created, MERGE makes it easy turn your models into holograms you can hold in the palm of your hand!</td>
</tr>
<tr>
<td>NASA eClips</td>
<td>Ages 9+. Website. NASA eClips is a NASA-supported project that brings together exciting video segments and resources with educational best practices to inspire and educate students to become 21st Century explorers. <a href="https://nasaeclips.arc.nasa.gov">https://nasaeclips.arc.nasa.gov</a></td>
</tr>
<tr>
<td>PhET Simulations</td>
<td>All ages. Paid app. Engage in learning science and math with the award-winning PhET simulations! Whether understanding atoms, exploring energy, or mastering multiplication, there is a sim for every learner. Perfect for at home, in class, or on the road, this app delivers all PhET HTML5 sims (more than 75 sims) in one easy-to-use package.</td>
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</tbody>
</table>
Anatomy Learning - 3D Atlas  
Ages 8-18

Educational Virtual Reality 3D includes spinning models of human anatomy, showing different systems, and body parts.

Astronomy for Kids  
Ages 5-8

With Astronomy for Kids your students will learn about the Sun, the Earth, the Moon and all other planets that make up the Solar System. It even includes assessments.

Bedtime Math  
Ages 6-8

This app makes math a fun part of kids’ everyday lives, as beloved as the bedtime story. Choose the Math Problem of the Day, or explore over 1600 additional math problems.

Blokify  
Ages 6-8

Blokify lets builders create blok based models free-form or through a guided building experience. Once the model is complete it can be 3D printed.

Brain It On! - Physics Puzzles  
Ages 10+

Deceptively challenging physics puzzles for your brain! Draw shapes to solve challenging physics puzzles. They’re not as easy as they look.

Code Carbon  
All Ages

Take control of your own planet! Balance energy with emissions in the face of a growing population and worsening climate change in this simulation strategy game.

Cosmic Watch: Time & Space  
Ages 12+

The Cosmic Watch 2.0 is a high-quality 3D planetarium and timepiece. This powerful educational tool renders stunning graphics of the earth and sky in real-time.

DNA Play  
Ages 6-8

Create your own incredible monsters and transform them in real-time with DNA Play! Over 200 billion unique life forms at your fingertips!

DragonBox 12+  
Ages 12+

DragonBox Algebra 12+ is a must-have tool for students so they can earn better grades and gain confidence in algebra and mathematics.

DragonBox 5+  
Ages 5-11

DragonBox Algebra 5+ is perfect for giving young children a head start in mathematics and algebra. Children as young as five can easily begin to grasp the basics.
<table>
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<th>App Name</th>
<th>Age Range</th>
<th>Description</th>
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<tr>
<td>Dragonbox Elements</td>
<td>Ages 6-12</td>
<td>Discover the fundamentals of geometry with students! Watch your kids learn geometry in a matter of hours, without them even noticing they’re learning!</td>
</tr>
<tr>
<td>Earth-Now</td>
<td>All Ages</td>
<td>NASA’s Earth Now is an application that visualizes recent global climate data from Earth Science satellites, including surface air temperature, carbon dioxide, and more.</td>
</tr>
<tr>
<td>Euclidea</td>
<td>Ages 14+</td>
<td>Euclidea is a fun and challenging way to create Euclidian Constructions! New levels are unlocked as you solve the previous ones.</td>
</tr>
<tr>
<td>GeoGebra</td>
<td>Ages 14+</td>
<td>Easily graph functions, solve equations, find special points of functions, save and share your results. Millions of people around the world use GeoGebra to learn math and science.</td>
</tr>
<tr>
<td>Global Change</td>
<td>All Ages</td>
<td>The Global Change app is an interactive teaching tool for engaging students with the interrelationships between the global carbon and water cycles.</td>
</tr>
<tr>
<td>GLOBE Observer</td>
<td>All Ages</td>
<td>GLOBE Observer allows students to make regular observations of the Earth’s cloud cover and compare it to NASA satellite observations.</td>
</tr>
<tr>
<td>Hello Mars</td>
<td>All Ages</td>
<td>Hello Mars provides a beautiful experience as you search the stars, travel to distant orbits and reach Mars with real-time weather data.</td>
</tr>
<tr>
<td>Inventioneers</td>
<td>Ages 2-8</td>
<td>A great tool for learning about real-time physics and the science behind different features like air, fire, magnetism, and jumping bunnies.</td>
</tr>
<tr>
<td>ISS Detector Satellite Tracker</td>
<td>All Ages</td>
<td>Find out when the International Space Station will be visible from your roof or backyard, then set an alarm to make sure you can see it. The built-in compass will help your spotting.</td>
</tr>
<tr>
<td>ISS HD Live App</td>
<td>All Ages</td>
<td>This app makes you feel a part of the International Space Station, with virtual 3D tours and live stream of data.</td>
</tr>
</tbody>
</table>
**Promethean Recommended**

### STEAM Apps

**K'NEX 3D**
*All Ages*
This engineering app allows kids to build ingenious creations using virtual blocks, rods, and connectors. It gives detailed 3D help for building with real building sets.

**Lightbot: Code Hour**
*All Ages*
Lightbot is a programming puzzle game where students gain a practical understanding of basic concepts like instruction sequencing, procedures and loops, by guiding a robot.

**Math Bakery**
*K-2*
Math Bakery helps young children learn addition and subtraction skills in an entertaining manner. The graphics are colorful and unique.

**Math Tricks**
*All Ages*
This program helps students solve part of the mathematical problems and tasks much faster than classical. It’s helpful to those who want to hone basics such as the multiplication table.

**Molecular Constructor**
*Ages 12+*
Molecular Constructor is a free 3D modeling software for building molecules. Using this application students can design a molecule and optimize its geometry at the same time.

**Moose Math**
*Ages 3-7*
Moose Math engages kids in a mathematical adventure and teaches counting, addition, subtraction, sorting, geometry, and more.

**NASA Be a Martian**
*All Ages*
This app lets you experience Mars as if you were there yourself! Take part in discovery on the Red Planet, view the latest images and videos, and get up-to-the-minute news.

**NASA Visualization Explorer**
*Ages 7+*
A direct connection to NASA’s extraordinary fleet of research spacecraft, this app presents cutting-edge research stories in an engaging and exciting format.

**Periodic Table** *(Royal Society of Chemists)*
*All Ages*
Beautiful interactive periodic table includes settings for beginner, intermediate, and advanced to control the type of information available.

**Periodic Table 2020**
*All Ages*
Chemistry falls into a number of the most important sciences and is one of the main school objects. This Periodic Table displays the entire periodic table including 10 other categories.
With Play and Learn Science, kids have science and problem-solving games at their fingertips anywhere they go! Play shadow games, control the weather, and more.

Select your favorite NASA mission and build a rocket to send the spacecraft into orbit. As you take the RS101 challenge, you can learn more about the thrilling missions.

Science Journal is the free digital science notebook brought to you by Google. The app allows you to keep your notes, photos, and observations in an all-in-one convenient place.

Be the hero of your very own city as you design and create a beautiful, bustling metropolis. Every decision is yours as your city gets larger and more intricate.

Solar Walk provides an impressive wealth of information about our solar system, planets and stars presented as an amazing 3D model that can be rotated and zoomed easily.

When did Neil Armstrong land on the moon? What space events happened on my birthday? Space365 lets you see what NASA events and trivia facts happened each day of the year.

SpriteBox is a unique puzzle-platformer; a mix of exploration and learning to code. You’ll learn to sequence commands, change parameters, debug faulty logic, and more.

Drag and drop living, squirming, talking, globs of goo to build structures, bridges, cannonballs, zeppelins, and giant tongues.

ZapZap Math is a standards-aligned, game-based learning platform that spans over 150 games covering over 180 math subtopics and includes an analytical reporting system.
ActivPanel® Brings STEAM to Life for the Entire Classroom

www.PrometheanWorld.com

To learn more about the Promethean ActivPanel, contact 888-652-2848, option 2.

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