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Resources for high-quality, informal STEM programming



Project-Based STEAM Learning at Home

Shared from National AfterSchool Association

In an effort to help you serve youth throughout this crisis, the Salvadori Center in New York City has developed a series of FREE project-based STEAM lessons. Every week throughout the crisis, they will share:

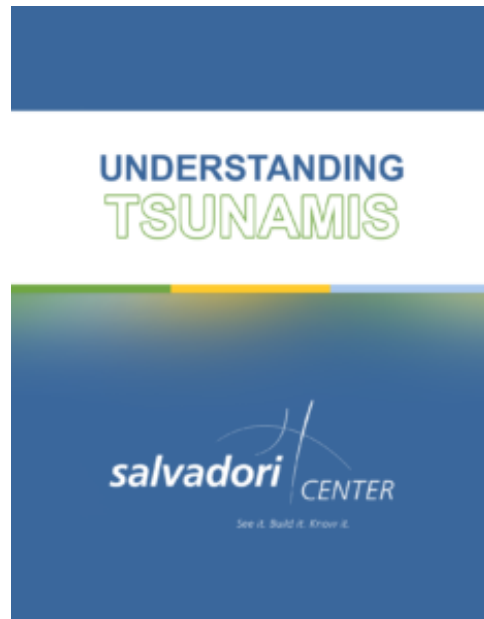
- Lesson plans with teacher guides
- Student instructions and worksheets
- Lists of common materials often found at home to complete projects
- And a design challenge to apply new concepts

These STEAM lessons use a project-based approach, which includes step-by-step guides for adults to support kids in learning and applying new knowledge to real-world design challenges. And if available, using remote learning resources, they share ideas and thoughts, and discuss their solutions with you and others.

[Take a look](#)

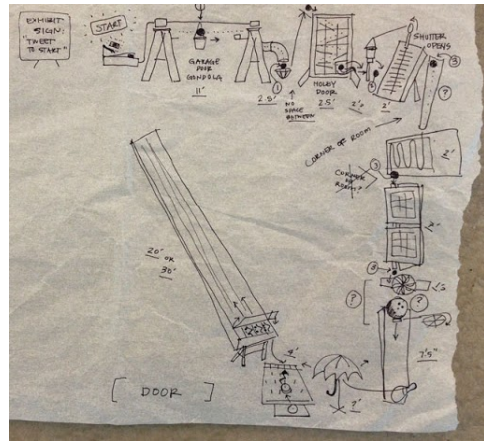
Summer STEM Challenge

Shawn Hardina, Owner and "Chief Change Fanatic" at Innovation Tech, LLC typically leads in-person STEM events and camps for youth programs. But with his calendar cleared for the next few months due to COVID-19, Shawn created an online STEM Challenge to help keep youth engaged with STEM over the summer. It is FREE and can be completed with everyday items you can find at home. Families and teachers can just use it for something fun to do



or they can register and submit a video to go on the Innovation Tech YouTube channel.

[Learn more about the STEM Challenge](#)



National Geographic Kids Science Lab

Head to the National Geographic Kids website to explore the Science Lab, a hub for hands-on experiments using everyday materials. Here's a few:

Human Spirograph

Grab a skateboard, giant paper, markers and a friend to make a masterpiece on wheels.



How to Make a Squishy Egg

It only takes three ingredients to make a hard egg shell squishy! Find out how you can make your own bouncy egg in this hands-on experiment.

[Head to the Science Lab for more](#)

And Just for Fun...

Can you think of a better way to learn physics than this video on building a squirrel-proof bird feeder?

[NASA Engineer Builds Impressive Obstacle Course to Stump Seed-Stealing Squirrels >>](#)



Arizona Center for Afterschool Excellence

azafterschool.org/STEM



Arizona Center for Afterschool Excellence,
4323 N 12th Street. Suite 202, Phoenix, AZ 85014

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