

Super Cool Children's At-Home Science Activities

3 Easy Science Experiments

<https://www.nationalgeographic.com/family/3-easy-science-experiments-for-kids-to-try/?cmpid=org=ngp::mc=referral::src=disney::cmp=disneyemail::add=disneyemail506>

THIS IS THE WAY TO MAKE MANDALORIAN MAGNETS

<https://www.starwars.com/news/mandalorian-magnets?cmp=emc%7Cnationalthings2%7Cnewsletter%7Cpromotile-mandomagnets%7Ccraft%7C20200506>

Radio Disney's On The One

https://www.instagram.com/p/B_aMjh0pmcv/

HAND-WASHING REVIEW

Reinforce what most kids probably already know at this point—the utmost importance of hand-washing—with this fun hip-hop video.

<https://www.flocabulary.com/unit/handwashing/>

HOUR OF CODE

Try these engaging, one-hour introductory computer science tutorials, appropriate for all ages. There are hundreds of activities and tutorials in over 45 languages.

https://wideopenschool.org/programs/family/prek-5/science/?gclid=CjwKCAjwqdn1BRBREiwAEbZcR56rDbb60X2fGuSIAGiOHZUK70wjZxjlqw0mdpHuAPzhwmMLerBgihoCJtcQAvD_BwE

ASTRONAUT ANDREW MORGAN ANSWERS KIDS' QUESTIONS

Find out from an astronaut what it's like to take a 272-day trip to the International Space Station and then come home to a pandemic.

<https://www.timeforkids.com/g56/8-questions-for-andrew-morgan-2/>

ELECTRIC ENERGY EXPERIMENT

Conduct electricity in this hands-on experiment. Grab a few household items and see how you can make cereal, dried spices, or Styrofoam dance! <https://www.exploratorium.edu/snacks/electrical-fleas>

MARVELOUS MUCUS

Discover how mucus is actually beneficial to our health. Watch the videos to learn more, and grab some Jell-O to conduct an experiment at home.

<https://www.sciencefriday.com/educational-resources/mucus/>

MAGNETIC FIELD DETECTOR

Design and build your own magnetic field detector! Using household items, think about how you'll find the invisible force called magnetism.

<https://pbskids.org/designsquad/build/inspector-detector/>

NATURE NOTEBOOK

Hunt for natural items and draw what you see in a notebook. You'll be surprised at how much you find, even staying close to home!

https://cms-tc.pbskids.org/global/Cyberchase_Nature-Walk-Notebook.pdf?mtime=20180711130529

HOW DOES YOUR GARDEN GROW?

Create a home garden in your yard or in a flower pot, using five easy-to-find items.

https://kids.nationalgeographic.com/explore/nature/plant-a-garden/?ar_a=1

HOW TO MIX THE BEST SNACK

Mix your favorite snack while learning the scientific properties of mixtures. Start with the video and test your knowledge with a quick quiz after.

<http://studyjams.scholastic.com/studyjams/jams/science/matter/mixtures.htm>

KITES NEED TAILS!

Try this kite-building activity you can do at home! Be sure to check out the resource on how tails help a kite to fly.

<https://www.sciencebuddies.org/blog/doing-fun-science-at-home-activity2-kite-building?from=Blog>

HOMEMADE HELICOPTERS

Use this DIY helicopter-building activity to promote kids' design thinking. Can you make the copter twirl faster? Fly farther?

https://cms-tc.pbskids.org/global/Cyberchase_Build-A-Better-Bunny-Copter.pdf?mtime=20180710153305

DIY NATURE BRUSH

Go out into your yard and collect any cool plants, leaves, and twigs you find. Then use what you've collected to create a paintbrush.

<https://pbskids.org/naturecat/diy/diy.html>

GLOW GREEN

See whether you've got a green thumb by growing a bean to sprout in honor of the spring.

<https://www.noggin.com/smart-activities-grow-green-and-grow-sprouts-with-rocky/>

MUSIC IN A BOTTLE

Make your own music using glass bottles filled with water.

<https://kids.nationalgeographic.com/explore/science/sounds-great--bottled-music/>

START A RUBBER BAND BAND

Learn to build your own rubber band guitar (and other instruments!) out of simple household supplies.

<https://www.sciencebuddies.org/blog/doing-fun-science-at-home-activity11-rubber-band-guitar?from=Blog>

HOW DEEP IS THE OCEAN?

Tour the depths of the ocean to find out how scientists explore regions that are hard to reach and discover the creatures that exist beneath.

<https://mysteryscience.com/mini-lessons/deep-ocean?code=e38ea25ca6b273b874e262a0918b1a51>

RECYCLE ROUNDUP

Practice recycling by sorting items into the correct bins.

<https://kids.nationalgeographic.com/games/action-and-adventure/recycle-roundup-new/>

WICKED WEATHER WIZ

Prepare for all types of weather in this interactive game. From hurricanes to tornadoes, learn which clues to look for and actions to take.

<https://youngmeteorologist.org>

DOUBLE BUBBLE MAGIC

See if you can create a bubble within a bubble with just some dish soap, a straw, water, and sugar.

<https://www.pta.org/docs/default-source/files/programs/stem/2019/bayer/bubble-fun.pdf>

SUPER SOLAR POWER!

Do a science experiment to recreate Maria Telkes's machine that used the sun to turn saltwater into fresh water.

<https://www.noggin.com/smart-activities-super-solar-power/>

MAKE A BALLOON-POWERED BOAT

Create a mini-air-powered boat using a sponge and a balloon. Tweak your design and reflect on the results.

<https://www.pta.org/docs/default-source/files/programs/stem/2020/balloon-boat.pdf>

WE'RE GOING ON A NATURE WALK!

Explore your yard or neighborhood and discover cool things! Check off, circle, or color the items on your list once you've found them.

<https://prekinders-wpengine.netdna-ssl.com/wp-content/uploads/2020/03/nature-walk-home.pdf>

EARTH DAY

Rap and learn about the history of Earth Day. Follow up with vocabulary and skill-building activities.

<https://www.flocabulary.com/unit/earth-day/>

NATURE CAT: EARTH DAY TODAY

Join your zany friend Nature Cat as he learns about the importance of Earth Day.

<https://pbskids.org/video/>

HOW FAR CAN IT FLY?

Make a paper airplane using the printable template. Try again by changing your design and see if you can go ever farther!

<https://www.noggin.com/smart-activities-how-far-can-it-fly/>

DECOMPOSER

Watch this video to learn about the role of decomposers (worms!!!) in the living world.

<https://ny.pbslearningmedia.org/resource/tdc02.sci.life.oate.decompose/decomposers/>

MAGIC PETAL POTIONS

Make potions! This activity never gets old for little ones, and will give them tools for play and investigation they can use again and again.

<https://tinkergarten.com/activities/magic-petal-potions>

CHEMISTRY COLOR EXPLOSION

Create a chemical reaction and work of art by mixing a few simple ingredients to create a beautiful pattern.

<https://kids.nationalgeographic.com/explore/science/science-lab/#/1266033219623>

WHAT DO PLANTS NEED?

Learn what plants need and design a journal to keep your drawings and other important information you've learned.

https://kids.nationalgeographic.com/content/dam/kids/photos/other/books/worksheets/elementary/ng_readers_sheet_l1_cm2020_f.pdf

HOW CAN WE BALANCE?

Play this game to learn how to use a pan balance.

<https://pbskids.org/sid/games/pan-balance>

LOOP SCOOPS: GARBAGE

In this animated video, Oliver learns the power of recycling, composting, and donating unwanted items.

<https://ny.pbslearningmedia.org/resource/lpsc10.sci.life.garbage/garbage/>

ENVIRONMENT CHANNEL

Take a deeper look at the natural systems that sustain life on earth and find new ways to participate as good players in the system.

<https://thewonderment.com/channels/environment/>

WHY DO THE STARS CHANGE WITH THE SEASONS?

Make a paper model of the solar system that helps you visualize Earth's yearly orbit around the Sun.

<https://mysteryscience.com/astronomy/mystery-4/seasonal-patterns-earth-s-orbit/75?code=NDEwMDY3MDQ&t=student#slide-id-0>

PLUM LANDING GAMES

Play! Explore! Create! And discover the wonders of our amazing planet with your friends from Plum Landing.

<https://pbskids.org/plumlanding/games/index.html>

SENDING SECRET MESSAGES

Find out how to communicate over a distance in this hands on activity. Grab some markers and a flashlight and get your secret message out.

<https://mysteryscience.com/light/mystery-5/light-communication-engineering/131?code=NDEwMDY3MDQ&t=student#slide-id-0>

ASTROPHYSICS FOR YOUNG PEOPLE IN A HURRY

Gather the whole family to hear LeVar Burton narrate Neil deGrasse Tyson's educational and entertaining read about the universe.

https://stories.audible.com/pdp/198259151X?ref=adbl_ent_anon_ds_pdp_pc_cntr-2-3

SESAME STREET IN COMMUNITIES

Use Sesame Street in Communities comprehensive toolkits on a variety of subjects that include articles, videos and activities.

<https://sesamestreetincommunities.org>

PBS LEARNING MEDIA

A massive, free collection of resources searchable by subject area and grade level, with subjects ranging from science and math to world languages and health.

<https://ny.pbslearningmedia.org/collection/emergency-closings-collection/>

BOUNCY EGGS

Learn how to make an egg bounce (without breaking it!) in this fun and easy science experiment!

<https://kids.nationalgeographic.com/explore/science/science-lab/#/815462979607>

SHIFTING SHADOWS

Grab a flashlight to see if you can make a paper gnome's shadow dance. Take your findings outside and test on a sunny day.

<https://mysteryscience.com/sky/mystery-1/sun-shadows-daily-patterns/82?code=NDEwMDY3MDQ&t=student#slide-id-0>

SEA OTTERS AND ECOSYSTEMS

Play this tossing game to learn about sea otters, urchins, kelp, and the ecosystem they share.

https://cms-tc.pbskids.org/global/Cyberchase_Chomp-Nibble-Grow-Grow-Grow-Game.pdf?mtime=20180710153816

FLOATING PENNY

Do this simple experiment to test air and water pressure. Are there other examples that show these forces in action?

<https://kids.nationalgeographic.com/explore/science/science-lab/#/1266094147736>

HELLO, SCIENTISTS!

Choose a grade level and video lesson to learn about weather, waves, and ecosystems.

<https://freeresources.amplify.com/amplify-science/>

WHAT'S AN ENGINEER?

This video is just right for little kids, explaining the engineering process in easy-to-understand language and fun animations.

<https://www.youtube-nocookie.com/embed/owHF9iLyxic>

SCIENCE QUIZZES

Find out how much you know about sharks, space, or other science topics, and then share the most interesting facts you learned.

<https://kids.nationalgeographic.com/games/quizzes/>