

Science Resources

All Grades:

National Inventors Hall of Fame / Camp Invention:

The National Inventors Hall of Fame connects inventors that have built the world around us with the innovators of tomorrow. Camp Invention® is one of our K-12 education experiences. Led by local teachers, this summer program has tapped into kids' natural curiosity and brought STEM concepts to life since 1990, giving them the opportunity to become innovators through teamwork and immersive, hands-on creative problem-solving.

https://www.invent.org/sites/default/files/2020-03/2020_STEMActivityGuide_Final.pdf

National Integrated Cyber Education Research Center (NICERC):

Science, STEM, Computer Science

Grades: ALL

The National Integrated Cyber Education Research Center (NICERC) is providing free resources to parents and teachers. These projects can help kids stay engaged and continue to develop cybersecurity literacy. There are some fun activities including how to build an enigma machine from a Pringles can!

<https://nicerc.org/2020/03/nicerc-home/>

Curriculum Associates

Reading, Math, Science

Grades: All

<https://www.curriculumassociates.com/supporting-students-away-from-school>

Data Nuggets:

Science

Grades: All

Data Nuggets are free educational resources, co-designed by scientists and educators. The goals of Data Nuggets are to (i) help scientists increase the broader impacts of their research by sharing their science story and data with the public, and (ii) to engage students in the practices of science through an innovative approach that combines scientific content from authentic research with key concepts in data literacy. When using Data Nuggets, students learn about authentic science research projects, and work through an activity featuring real data from a real scientist, providing practice developing explanations about natural phenomena using data from the study.

<http://datanuggets.org/>

Discovery K12:

Grades: PreK-12

Complete online curriculum for pre-k to 12th grade. All main subjects are covered, plus extra curriculum courses.

<http://discoveryk12.com/dk12/>

Heifer International:

Reading, Writing, Science, Social Studies

FREE resources (downloadable books, mazes, word searches, and more) from Heifer International's school programs -- with topics in social studies (geography, economics), science, language arts.

Grades: ALL

<https://www.heifer.org/what-you-can-do/get-involved/schools/home-school-activities.html>

Science Resources

Minecraft: Education Edition

A game-based learning platform that promotes creativity, collaboration, and problem-solving in an immersive digital environment

Grades: ALL

<https://education.minecraft.net/>

Middle School

Science News for Students:

Reading, Science, STEM, Current events

Grades: 6th - 8th

A free online science magazine aimed at kids ages 9-14

<https://www.sciencenewsforstudents.org/>

STEMhero:

Math, Science, STEM

Grades: 6th - 8th

Hunt down and fix water leaks, analyze data, as a fun+productive activity for students at home -- plus a break from CoVid focus.

www.STEMhero.com/meter-leak-hunt

Middle to High School

Getting Nerdy with Mel and Gerdy:

Science Grades: 6th - 8th, High School

3-4 Weeks of life science/biology student-led lessons with parents' guide and answer key

\$20 lesson is free with coupon NERDHELP at checkout

<https://gettingnerdywithmelandgerdy.com/store/Life-Science-at-Home-Take-Home-Sub-Packet-p180569373>

InnerOrbit:

Science, STEM

A Database of NGSS Assessments, free until August.

Grades: 6th - 8th, High School

<https://www.innerorbit.com/signup/simple.php>

Ocean School, by the National Film Board of Canada:

Grades: 6-9

Learn at home with Ocean School! This set of 5 great lessons tackles science topics

<http://bit.ly/OSLearnFromHome>

Science Resources

SEPUP:

Science

Grades: 6-12

Free science simulations, scientist profiles, and other digital resources for middle school science and high school biology. No log in required

[https://sepuplhs.org/Club SciKidz MD:](https://sepuplhs.org/Club%20SciKidz%20MD)

Science, STEM

Daily free science or cooking experiment to do at home.

Grades: 8-12

<http://www.clubscikidzmd.com/blog/>

High School

Biology Simulations:

Science High School

Simulations and virtual labs for biology topics including evolution, ecology, and cellular energetics.

www.biologysimulations.com

Science News in High Schools:

Math, Science, STEM

Grades: High School

Science News in High Schools is a program from the Society for Science & the Public that aims to boost science literacy for every U.S. high school student.

<https://www.sciencenews.org/snhs>