

BOEING COMMUNITY RESOURCE GUIDE

Spring 2020



A comprehensive guide of Boeing Global Engagement nonprofit partners offering free online education resources and programming

Summary

Game-changing innovation will always be at the heart of Boeing. And just as our business has evolved to meet the challenges of a global marketplace, so has our approach to community engagement.

Through purposeful investments, employee engagement and thoughtful advocacy efforts, Boeing and its employees support innovative partnerships and programs that align with our strategic objectives, create value and help build better communities worldwide. This includes improving access to globally competitive learning as well as workforce and skills development, and supporting our military and veteran communities.

This Community Resource Guide features nonprofit organizations funded by Boeing that are offering free online resources in education. We hope it will serve as a helpful guide in navigating digital education programming options.

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| <h3>Our Future</h3> <p>Tomorrow's Innovators</p>  <ul style="list-style-type: none">▪ Early Learning Increase school readiness of kindergartners▪ Primary and Middle School Generate interest and sustained participation in STEM▪ High School Increase industry career readiness and/or STEM-related education▪ Workforce Preparation Prepare under-skilled adults/young adults for high-demand sectors | <h3>Our Heroes</h3> <p>Veterans & Families</p>  <ul style="list-style-type: none">▪ Workforce Transition Invest in training and skill development for veterans and their families▪ Recovery and Rehabilitation Support recovery programs for PTSD, moral/physical injuries, and suicide prevention▪ Boeing Boots on the Ground Deploy employees into Boeing's communities | <h3>Our Homes</h3> <p>Dynamic Communities</p>  <ul style="list-style-type: none">▪ Prevailing Community Need(s) Thematic areas to be identified by regional and site leaders▪ Social Corporate Leader Address unique local challenges by lending expertise and promoting employee volunteerism |
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Education Resources

Early Learning (PreK)

Aquarium of the Pacific

[Aquarium Online Academy](#) | Grades: PreK-12

Online Academy brings educational programming and fun and entertaining activities to the public. There are on-demand videos and activities for all ages, as well as a schedule of interactive live programs with educators that range from virtual classroom sessions to Pacific Pals puppet programming.

The Arizona Science Center

[Online Learning](#) | Grades: PreK-12

Daily interactive videos of Early Learning Live programming and science demonstrations ranging from laser cutting and 3D printing to dissections!

Imagine Children's Museum

[ICM YouTube Channel](#) | Grades: PreK-3

Imagine Children's Museum is uploading short videos of Little Science Lab and arts and crafts programming for young learners and their families.

KidsQuest Children's Museum

[Home Quest](#) | Grades: PreK-5

Catch the KidsQuest staff providing virtual Story Time, plus early and school-age learning videos focused on STEAM concepts for children 0-10. A new video is released each weekday; subscribe and you'll receive the latest Story Time and Home Quest videos delivered to your inbox.

Oklahoma Educational Television Authority (OETA)

[Learning at Home Initiative](#) | Grades: PreK-12

OETA will be adjusting its daytime schedule to provide curriculum-based programming for students over the air on its broadcast channel, OETA WORLD. Programs will include PBS favorites like *NOVA*, *Nature*, *American Experience* as well as PBS KIDS programming. Each episode or series directly correlates to lessons and resources made available through PBS LearningMedia which have been designed to meet federal and state standards for grades PreK through 12. Parent and teacher resources to accompany programming are available online.

PBS SoCal's At-Home Learning Initiative

[At Home Learning](#) | Grades: PreK-5

PBS SoCal's At-Home Learning Initiative is using television channels to provide free, at-home learning during widespread school closures.

Rosie Riveters

[Rosie Riveters](#) | Grades: PreK-8

Rosie Riveters supports students (primarily girls) ages 4-14. Content and activities will be shared on a weekly basis by email. To sign up, visit the Rosie Riveters website and provide your name and email.

St. Louis Zoo

[Bring the Zoo to You](#) | Grades: K-12

The zoo will be posting keeper chats, videos, and pictures of animals.

Education Resources

Early Learning (PreK)

University of Chicago STEM Education

[Becoming a Math Family](#) | Grades: PreK-K

The activities on this site foster math learning and are intended for adults to do with children, not for children to do on their own. This is because learning math is a social process, and young children learn best through interactions and activities with their parents or other engaged adults. Many of these activities can be done during play or as part of a child's daily routine.

University of Chicago STEM Education

[Ready, Set, STEM](#) | Grades: PreK-K

Ready, Set, STEM provides easy, at-home activities that will help engage children's STEM thinking and learning during everyday interactions.

University of Washington Institute for Learning and Brain Sciences (I-LABS)

[Finding Math Instagram](#) | Grades: PreK

Math is everywhere! I-LABS will post tips to help caregivers and kids explore math concepts in their own home.

Zeno Math

[Zeno Activities](#) | Grades: PreK-5

Early learning and K-5 math activities that meet Teaching Strategies GOLD standards. Activities engage learners in math concepts from number sense and measurement to algebra and geometry. Instructions for some games are available in multiple languages, including Arabic, Amharic, Chinese (Mandarin), English, Oromo, Somali, Spanish, Russian, Tigrinya, and Vietnamese.

Education Resources

Elementary School (K – 5)

America's Car Museum

[Fuel From Home](#) | Grades: K-8

Automotive-inspired lessons you can do from your kitchen.

Aquarium of the Pacific

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Chicago Museum of Science and Industry

[Science at Home](#) | Grades: K-12

Educational videos, science games, and simple hands-on STEM experiments that families can do together with household materials.

The Franklin Institute

[Spark of Science](#), [Daily Experiments](#), [Facebook Live Events](#) | Grades: 3-8

The Franklin Institute's #SparkofScience series showcases the Institute's incredible science interpreters sharing their favorite science experiments, some of which can be done at home. Daily experiments are posted on the Institute's Facebook page, where they are also hosting daily Facebook live conversations with elite science professionals.

Girl Scouts of Western Oklahoma

[Girl Scouts at Home](#) | Grades: 1-12

Girl Scouts Western Oklahoma is offering virtual programming on a variety of digital platforms, including many hands-on STEM lessons. Dates, times and links to each activity can be found on their virtual programming calendar

HudsonAlpha Institute for Biotechnology

[Shareable Science with Dr. Neil Lamb](#) | Grades: K-12

Dr. Neil Lamb presents Beyond the Blog, a companion to Shareable Science, to help make sense of the science related to the coronavirus COVID-19. This ongoing video series offers easy-to-understand explanations of the science behind the disease, how it spreads, and what scientists are doing to help diagnose and treat the disease.

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KID Museum

[Make It!](#) | Grades: 2-12

Rotating weekly home activities that include hands-on build projects.

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NASA

[NASA STEM Engagement](#) | Grades: K-12

Launch rockets, build a Moon Habitat, solve spacey puzzles, and more! These science, technology, engineering, and math activities are fun for kids, adults, and the whole family.

National Archives

[Archives at Home](#) | Grades: K-12

This page hosts content on a variety of topics each week, including civics-based content for the whole family.

National Audubon Society

[Audubon Adventures](#) | Grades 3-5

Audubon Adventures offers puzzles, quizzes, lesson plans, and hands-on learning activities for students and teachers to do at home or in school.

National Cowboy & Western Heritage Museum

[Riding the Whirlwind: Weather in the West](#) | Grades: 4-8

This program uses weather as the focus for exploration and learning about math and science concepts. Organized by the National Cowboy & Western Heritage Museum, students can learn how the often brutal environment of this region -- with its dramatic blizzards, violent thunder storms, floods, droughts, tornadoes, and hurricanes -- has shaped, and continues to shape, the history of the American West. Curriculum is aligned to state science standards.

Education Resources

Elementary School (K – 5)

National Inventor's Hall of Fame

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NIHF is providing hands-on activities and printables that turn any room into a classroom. The STEM Activity Guide and NIHF blog offer additional ideas for easy, fun, and engaging activities that will give children the opportunity to explore, collaborate, and continue building lifelong creative thinking and problem-solving skills.

Nine Network of Public Media

[Learning Tool Kit](#) | Grades: K-12

Nine Network of Public Media offers on-air and online educational resources for STEM, social studies, literacy, social emotional learning, and the arts. Videos, lesson plans, and interactive activities are available.

Oklahoma A+ Schools Institute

[Great Boeing STEAM Challenge](#) | Grades: 1-3

Each week, Oklahoma A+ Schools will post three videos to its YouTube channel with STEAM Challenges for teachers and parents to complete at home using minimal materials. The links to each YouTube video will be shared as they're available on Oklahoma A+ Schools' Facebook page.

Oklahoma Educational Television Authority (OETA)

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Pacific Science Center

[Curiosity at Home](#) | Grades: K-8

Ignite curiosity with streaming live science shows, hands-on STEM activities, tutorials, interviews, and more. These educational activities and resources are meant to inspire and excite all people about science.

Page Ahead Children's Literacy Program

[Story Time With Friends](#) | Grades: K-5

Every Friday, Page Ahead Children's Literacy Program will post a new story to their YouTube channel brought to life by volunteers.

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Education Resources

Elementary School (K – 5)

Science Museum Oklahoma

[At-Home Science Experiments via Facebook](#) | Grades: K-12

Science Museum Oklahoma will post at-home science experiments to their Facebook page daily. Each science experiment will include commonly-found household items.

The Sheldon

[SOLID Project](#) | Grades: 2-8

The Sheldon Science of Learning Instrument Design (SOLID) Project is a STEAM-based program, underwritten by the Boeing Company and in collaboration with the St. Louis Science Center, that challenges students to design and create their own musical instruments by following the steps of the engineering cycle. Worksheets and online learning are available.

Smithsonian National Air and Space Museum (NASM)

[K-12 Learning Resources](#) | Grades: K-12

NASM is retooling digital content and resources to offer curated educational content for students, teachers, and aerospace enthusiasts. You can currently access their STEM in 30 episodes, AirSpace podcast, videos, games, and EZ Science activities.

ST Math

[ST Math](#) | Grades: K-8

ST Math is a web-based visual instructional program that leads to deep conceptual understanding of math. Parents, schools, and districts can access ST Math for free through June 30, 2020.

St. Louis Zoo

[Bring the Zoo to You](#) | Grades: K-12

The zoo will be posting keeper chats, videos, and pictures of animals.

Tacoma Arts Live

[Education Videos and Resources](#) | Grades: 2-12

Tacoma Arts Live is providing education programming through video and live streams. Content will be added weekly; current content includes their Civil Rights Legacy Tour production, accompanied by study guides, history lessons, and more. A section with artist previews includes interviews with performers, behind the scenes access, learning resources, and a few surprises along the way!

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U.S. Space and Rocket Center

[Science Never Stops](#) | Grades: K-12

Brighten your days at home with Science Never Stops, a daily interactive video series on the U.S. Space and Rocket Center's Facebook and YouTube channel. Discover how to use free astronomy software, create air pressure using soda cans, make galaxy swirl crayons and edible space rovers, and so much more!

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Early learning and K-5 math activities that meet Teaching Strategies GOLD standards. Activities engage learners in math concepts from number sense and measurement to algebra and geometry. Instructions for some games are available in multiple languages, including Arabic, Amharic, Chinese (Mandarin), English, Oromo, Somali, Spanish, Russian, Tigrinya, and Vietnamese.

Education Resources

Middle School (6 – 8)

Academy of Science St. Louis

[Online Resources](#) | Grades: 6-12

The Academy offers resources for parents, educators, homeschools, students, citizen scientists, and girls to engage in science and STEM learning and exploration. The videos page includes recordings of popular science talks.

America's Car Museum

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Automotive-inspired lessons you can do from your kitchen.

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The Arizona Science Center

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Daily interactive videos of Early Learning Live programming and science demonstrations ranging from laser cutting and 3D printing to dissections!

Career Connect Washington, Challenge Seattle, & Washington Roundtable

[CareerConnect@Home](#) | Grades: 7-12

During the month of May, join industry leaders for a series of online discussions to learn about real jobs and industries in Washington.

Chicago Museum of Science and Industry

[Science at Home](#) | Grades: K-12

Educational videos, science games, and simple hands-on STEM experiments that families can do together with household materials.

Embry-Riddle Worldwide College of Aeronautics and Women in Aviation International Chapter

[Aviation is Your Future Course](#) | Grades: 3-7

This free course aims to get young students excited about careers in aviation, aeronautics, and aerospace. It is a self-paced massive open online course (MOOC). Embry-Riddle Worldwide instructors will inspire young learners to look to the sky and provide exciting information about the fields of aviation and aeronautics. In the self-paced course, participants will explore aspects of flight such as lift, gravity, thrust, and drag. They will learn how to identify major parts of an airplane, describe the flight characteristics of a helicopter, discuss the goals of space exploration, and much more.

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St. Louis Zoo

[Bring the Zoo to You](#) | Grades: K-12

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Tacoma Arts Live

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Travis Manion Foundation

[Character Isn't Canceled](#) | Grades: 6-12

TMF's trained, vetted, and inspirational veteran leaders are offering a suite of character education course to youth at home. Parent resources on character strengths are also available. Topics range from hope and kindness to teamwork and gratitude. These resources are entirely free and open to the public. They encourage you to register so you can keep track of your favorite lesson plans, videos and hear about new online classes and content TMF will continue to release.

Education Resources

High School (9 – 12)

Academy of Science St. Louis

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Embry-Riddle Worldwide

[Massive Open Online Course](#) | Grades: 9-12 and up

Embry-Riddle Worldwide's massive open online course (MOOC) is open to anyone with an internet connection and a desire to learn about aviation. Future MOOCs will be announced as scheduled.

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The Museum of Flight

[Western Aerospace Scholars](#) | Grades: 10-11

Western Aerospace Scholars is an online distance learning course and summer experience specifically designed for high school sophomores and juniors interested in pursuing science, technology, engineering, and math (STEM) pathways through the exploration of space and space travel. The online curriculum is a University of Washington college course focused on NASA's space exploration program, as well as topics in Earth and Space Science.

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