



Arlington
Public
Schools

Environmental Education Resources for Remote Teaching



Curated by the [Superintendent's Advisory Committee on Sustainability](#). Last updated October 2020.

Want to add resources to this list? Contact Cathy Lin at cathy.lin@apsva.us

PROJECT SUGGESTIONS

Home Sustainability Assessment

Grades: Elementary & Middle

For: Teachers & Parents

Using resources listed here, have students complete a sustainability assessment and come up with action plans to implement sustainability strategies at home or school.

- [Project Learning Tree Free Activities Around Your Home](#)
- [Eco Schools USA Pathways At Home](#)
- [Earth Day at Home](#)
- [Energy Efficiency Checklist](#)
- [K-2 Circular Economy Trick or Treat Lesson](#)
- [3-5 Circular Economy Trick or Treat Lesson](#)

Digital Poster Project

Grades: Elementary, Middle, & High School

For: Teachers

Teacher curated and crowdsourced, the [5000th Poster Assignment](#) offers alternatives to creating a paper poster and instead, encourages students to create digital posters they can keep! Challenge students to develop a brochure or poster raising awareness for a sustainability topic or theme you are teaching in class.

Upcycle At Home

Grades: Elementary & Middle

For: Parents

[Upcycle at home with these guiding activities](#) such as using an old t-shirt and turning it into a grocery bag or coasters!

CARBON & CLIMATE RESOURCES

Use these resources to create remote lessons related to carbon and climate.

Climate Civics Toolkit

Grades: Middle, & High School

For: Teachers & Parents

[Earth Day Network's Climate Civics Toolkit](#) provides resources for educators and parents to engage youth in learning about climate change and civic action, including **plastic pollution**, **equity** and **environmental justice**, and **food sustainability**. Includes suggestions for service learning projects and investigations.

Tracking Carbon to Understand Its Flow

Grades: Middle

For: Teachers

[Three lessons developed by National Geographic](#), about tracking carbon, climate change, and fossil fuels. Includes video and discussion to be easily adapted virtually. Nat Geo resources easily integrate into Google Classroom

CoolClimate Calculator

Grades: Middle, & High School

For: Teachers & Parents

Pair the [CoolClimate Calculator](#) for activities and lessons related to carbon and climate. Have youth calculate carbon footprint based on where they live. For a virtual classroom setting, provide students with an estimated gross annual household income based on average for your county using annual income data from the [US Census](#).

Climate Leaders In Action: Energy Module

Grades: High School

For: Teachers & Parents

Sign-up for a free account at Learning Lab to access this lesson on [Climate Leaders](#). Students investigate renewable and nonrenewable energy uses. For other free lessons from Learning Lab, check out their [Free Preview Resources](#). Please note, for other lessons on Learning Lab, a \$40 annual subscription is required.

WATER CONSERVATION & MARINE ECOSYSTEMS

Chesapeake Bay Conservation

Grades: Middle & High School

For: Teachers and Parents

The Chesapeake Bay Foundation's [Learn Outside, Learn at Home](#) content includes new video resources, field investigations, and printable watershed curriculum to help students and teachers stay connected to the Bay and watershed.

CBF is also offering the [Chesapeake Bay Foundation Online Watershed Learning \(OWL\) program](#), a live and local learning program designed to provide students the opportunity to discover our unique watershed through real time lessons with CBF educators. (The fee is \$50 except for Title I schools.)

Water Works Lesson

Grades: Middle

For: Teachers

Three lessons by National Geographic, [Water Works lessons](#) guides students to compare their own tap water use in light of global freshwater access to develop an understanding of water security.

Wading into Water Quality

Grades: Middle

For: Teachers & Parents

Part of EarthEcho International, [Wading into Water Quality](#) is a recorded lesson part of their Snack-Sized Science resources. Check out other Snack-Sized Science videos on the [EarthEcho International Youtube Channel](#).

National Marine Sanctuaries

Grades: K-12

For: Teachers & Parents

Check out a [variety of digital tools and resources](#) from NOAA including [virtual dives](#), [data in the classroom](#) activities, activities on [ocean acidification](#) and [lessons on reef monitoring](#).

Watershed Sleuth Challenge

Grades: Middle & High School

For: Teachers & Parents

Developed by the National Environmental Education Foundation (NEEF), the [Watershed Sleuth Challenge](#) is a self-paced lesson for students to learn about watersheds.

Find More Resources Related to Water

[Check out In Water](#) to find curated resources about water conservation and oceans.

WILDLIFE

National Wildlife Federation

Grades: K-12

For: Teachers & Parents

Check out the [National Wildlife Federation virtual resources](#) which includes virtual field trips, activities, and more. For example, share the [Bird Watching Activity](#) as a homework assignment or a family activity to explore birds near your home. For accessibility, the activity can be done by looking out a window or completely online with the resources provided by NWF.

National Zoo's School Programs

Grades: K-5

For: Teachers

With your choice of various topics all corresponding to Next Generation Science Standards, National Zoo staff will meet one-on-one with your virtual classroom. All programs are completely free, you just need to register on a first-come basis.

<https://nationalzoo.si.edu/education/school-programs>

National Zoo's STEAM Webinars

Grades: 5-8

For: Teachers and Parents

National Zoo staff lead this monthly live webinar series (on Zoom) that explores the various careers in STEAM at the Zoo. <https://nationalzoo.si.edu/education/wild-side-steam>

Remote Wild

Grades: K-12

For: Teachers & Parents

[Project Wild developed remote adaptations](#) to their activities. Even if you don't have access to Project Wild curriculum resources, you can use these adaptations by expanding on the guidance provided.

The Great Backyard Bird Count

Grades: K-12

For: Teachers & Parents

Participate in the [Cornell University Great Backyard Bird Count](#) citizen science project. Pair this with other lessons about wildlife and birds.

VIRTUAL FIELD TRIPS & VIDEOS

Use these virtual field trips with related lessons and activities, or as a fun break from face-to-face Team Meetings lessons.

- [Nature Time 10-15 Minute Videos](#) (Youtube)
- [25 Virtual Field Trip Suggestions](#)
- [National Wildlife Federation Virtual Trips](#)
- [Nature Conservancy Field Trips](#)

FIND OTHER RESOURCES

Can't find something that meets your needs? Find more with these tools below:

- [Green School Yards Resources](#)
- [Nature For All Searchable Index](#)
- [Project Learning Tree Resources](#)
- [GreenSchools National Network Resources](#)

TEACHER EDUCATION AND DEVELOPMENT

Resources to support teachers to teach remotely:

- [GreenSchools National Network Archive Newsletter](#)
- [Practical Guide to Place-Based Learning Webinar](#)
- [Webinars from the North American Association for Environmental Education](#)