

Citizen Science Projects

Below are a list of organizations and resources to involve students in citizen science projects. Many of the activities can be used in part for your schools seeking or renewing to be a Green Certified School .

Budburst.org

[Phenology and Climate](#)

Students use their observation skills to document and share through an app when changes of the season occur in their area. Great connection in how data is important to document how the natural world is changing due to climate change.

[Issac Walton League](#)

The Issac Walton League (IWL) has a variety of programs and resources available for students. Listed below are a few of the programs available. The main page also has information on conservation issues the IWL are currently supporting in the U.S.

[SaltWatch](#) - Road salt (sodium chloride) is everywhere during winter months. It keeps us safe on roads and sidewalks, but it can also pose a threat to fish and wildlife as well as human health. You can take action to find out whether road salt pollution is a problem in your local stream. The IWL will send you upon request a testing kit to monitor your local stream and directions to upload your data.

[The Izaak Walton League's Save Our Streams](#) program is the only nationwide program training volunteers to protect waterways from pollution and bring information about water quality to their communities. The IWL provides classes, tutorials and more about how to monitor local streams. Data collected is entered in their [Clean Water Hub](#). You do not have enter all what they ask for, but it is a great way to store data you collected throughout the year and every year the Hub also allows comparison between your stream to other local streams.

[Audubon Naturalist Society](#) (ANS)

ANS along with IWL has developed the [Creek Critter App](#). This app enables you to identify and record macroinvertebrates in freshwater streams. The app also has a quick tutorial in how to collect macroinvertebrates. Observations and data can be saved on the app and be used in conjunction with IWL's Cleanwater Hub.

[The Maryland Dept. of Natural \(MDN\)](#)

MDN has resources has a large variety of resources on invasives, native animals and plants. The program [Wild Acres](#) is a list of resources for your school to establish habitat for wildlife - including important pollinators such as bees and butterflies. Establishing an outside wildlife habitat for these animals would also be a great outdoor classroom for your students to observe plant and animal interactions.

[GLOBE.gov](#)

The Global Learning and Observations to Benefit the Environment (GLOBE) is a federally supported international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. Students have the opportunity to participate in meaningful studies of Earth's Spheres (atmosphere, biosphere, hydrosphere, pedosphere (soil)) by downloading the [GLOBE Observer app](#).

[Ebird.org](#)

Learn how to identify birds and help ornithologist around the world to track the range of different bird species.