

# You are Invited to Do NASA Science!

Join a NASA-sponsored citizen science project, and do NASA Science! Citizen science projects are collaborations between scientists and the public (there are no citizenship requirements). Through NASA citizen science projects, volunteers have made thousands of important scientific discoveries, including:

- Most of the known comets
- Hundreds of planets orbiting stars beyond our solar system
- Thousands of brown dwarf stars
- Zika virus-carrying mosquito larvae in cemetery vases
- A new kind of aurora phenomenon named “STEVE” (Strong Thermal Emission Velocity Enhancement)

You can contribute to science in many ways through these projects. Citizen scientists take photos, examine images and other kinds of data, collect water samples, observe the sky with their own telescopes, and pose and answer their own research questions. NASA’s citizen science projects will teach you everything you need to know as you go. Many participants have made lasting friendships through these projects, or been inspired to pursue science studies or careers. More than five hundred volunteers have co-authored papers through these projects.

Just be prepared: NASA citizen science is the real thing. There are no guaranteed results, and sometimes the answers will remain unknown. But if you've been reading about groundbreaking discoveries made by others and you're ready to make some of your own, start with one of the projects below or visit our website at [science.nasa.gov/citizen-science](https://science.nasa.gov/citizen-science) to see the complete list of projects.



Use this blue QR code to see all the current NASA citizen science projects.

## Online Projects for Science Enthusiasts of All Ages

<i><b>Project Name (and link!)</b></i>	<i><b>Research Focus</b></i>	<i><b>What You'll Do</b></i>
<a href="#">Active Asteroids</a> - Search for water-bearing asteroids that might explain how water got to Earth.	Asteroids	analyze images
<a href="#">Daily Minor Planet</a> - Help discover new asteroids.	Asteroids	analyze images
<a href="#">Dark Energy Explorers</a> - Identify distant galaxies to help us understand the history and expansion of the universe.	Cosmology	analyze visualized data
<a href="#">Backyard Worlds: Planet 9</a> - Search for new planets in our Solar System and other rare planet-like objects.	Planets and Brown Dwarfs	analyze visualized data

# NASA Citizen Science Learning Resources

(Access this file electronically here: <https://bit.ly/4iXKPDw>)



Use QR code  
above to access  
this resource online

Looking for a hands-on, authentic STEM experience that will inspire your learners? Give your learners a chance to learn science by doing it alongside professional scientists! NASA's citizen science projects can help your students learn about space, the Sun, and the Earth. These projects support:

- Experiential, inquiry-based learning
- Learning about data
- Science identity
- Career building

NASA's citizen science projects can serve as elements of your curriculum, as extra credit experiences, or as science fair research opportunities. They can inspire informal learners too, providing an insider's view of today's cutting-edge research.

The table below lists projects that offer learning resources to facilitate participation of formal and informal learning audiences. Resources are summarized with the grade bands served, the topic areas (using Next Generation Science Standards (NGSS)<sup>1</sup> Disciplinary Core Idea Domains), and applicable standards to which the resources are reported to be aligned. Clicking on the project name (first column) will take you to a short description of the project's goals, the project activity, and links to the project website and its educational materials. If you have questions about a specific resource, please address them to the project leader.

All projects require internet-connected computers to participate. **GLOBE Observer projects** (numbers 3 - 6, below) require use of a mobile app, but do not require a cell signal in the field.

<i><b>NASA Citizen Science Project</b></i>	<i><b>K - 5</b></i>	<i><b>6-8</b></i>	<i><b>9-12</b></i>	<i><b>13-16</b></i>	<i><b>Standards Connections</b></i>
1. <a href="#">Community Collaborative Rain Hail and Snow (CoCoRaHS)</a>	ESS	ESS	ESS		NGSS; Common Core; various
2. <a href="#">GLOBE Clouds - GLOBE Observer app.</a>	ESS	ESS	ESS		unknown
3. <a href="#">GLOBE Trees - GLOBE Observer app.</a>	ESS	ESS	ESS		unknown
4. <a href="#">GLOBE Land Cover - GLOBE Observer app.</a>	ESS	ESS	ESS		unknown
5. <a href="#">GLOBE Mosquito Habitat Mapper - GLOBE Observer app.</a>	ESS	ESS	ESS	ESS	unknown
6. <a href="#">Growing Beyond Earth</a>		LS	LS		Florida State Stds
7. <a href="#">The International Astronomical Search Collaboration (IASC)</a>			ESS	ESS	unknown
8. <a href="#">Radio JOVE</a>			PS	PS	NSES (1996)
9. <a href="#">Open Science Data Repository Analysis Working Groups</a>			ESS	ESS	unknown

Primary NGSS DCI Domains: **LS** = Life Science **PS** = Physical Science **ESS** = Earth Space Science

Abbreviations: NGSS = Next Generation Science Standards, CC = Common Core, ELA = English Language Arts, NSES = National Science Education Standards, NA = Not Applicable

<sup>1</sup> NGSS is a registered trademark of WestEd. Neither WestEd nor the lead states and partners that developed the Next Generation Science Standards were involved in the production of this product, and do not endorse it.