

SPRING 2023 NEWSLETTER



Prepare to have a **STEM-terrific Summer!**

In this edition:

- **New NASA eClips Resources**
 - **Ask SME: Close-up with a NASA Subject Matter Expert - Plant Scientist - Dr. Gioia Massa**
 - **Spotlite Design Challenge: Land Detectives New Submissions**
- **Earth Day Celebration Highlights**
- **Summer Activities**
- **Partner Resources**

Interact with NASA eClips on one of these platforms!



NEW RESOURCES

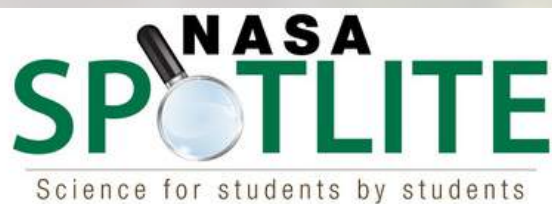
ASK SME

Close-up with a NASA Subject Matter Expert

Life Sciences Project Scientist - Dr. Gioia Massa



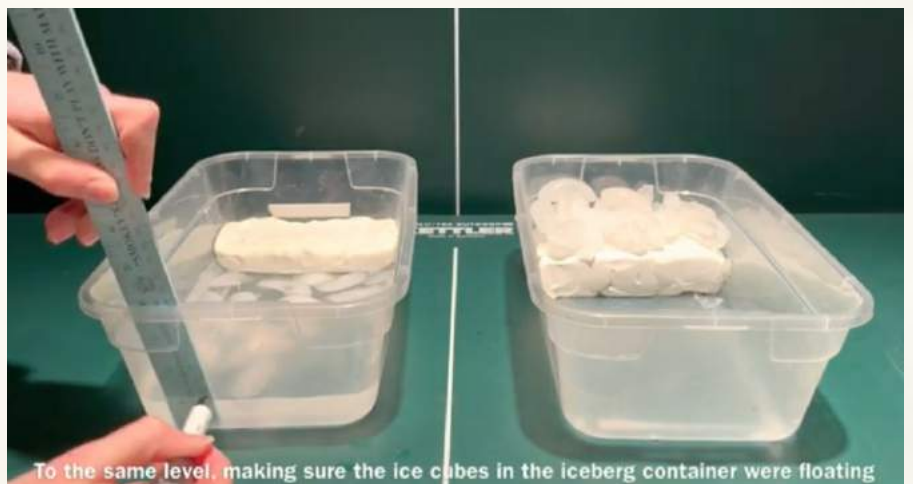
In this close-up video, Dr. Gioia Massa, Life Sciences Project Scientist at NASA's Kennedy Space Center, shares her inspirations that led to her passion for studying and growing plants. Dr. Massa describes how work helps astronauts grow edible plants on the International Space Station.



NASA Spotlite Design Challenge: Land Detectives

Check out the new submissions from student production teams who earned digital badges.

[Visit the Spotlite Gallery on YouTube](#)



NASA Spotlite: Landcover and Sea Level

HIGHLIGHTS

Thank You Presenters!

Earth Day Celebration



Hand Crank Generator



Salt Water and Cedar Trees



Seed Bombs

Check out the awesome presentations!

SUMMER ACTIVITIES



Help learners STEMify their summer through hands-on and engaging activities curated by the NASA eClips team. You'll find something for everyone.

Elementary
Grades

Middle School
Grades

High School
Grades

NASA Selfie App



The NASA Selfie app lets you generate snapshots of yourself in a virtual spacesuit, posing in front of cosmic locations, like the Orion Nebula or the Milky Way galaxy. You just snap a photo of yourself, pick your background, and share it with friends.

[Android version](#)



Eclipse Chalk Art



You can have fun creating your own picture of a solar eclipse with colored chalk and dark construction paper!



NEMO - NET



In this game, players help NASA classify coral reefs by painting 3D and 2D images of coral. Players can also rate the classifications of other players and level up in the food chain as they explore and classify coral reefs and other shallow marine environments and creatures from locations all over the world!



NASA's Eyes

Experience Earth and our solar system, the universe, and the spacecraft exploring them with immersive apps for Mac, PC, and mobile devices.



NASA Space Explore Mars:

A Mars Rover Game

Become a planetary geologist and choose a Martian rock to investigate. Send a sequence of commands to guide a Rover to pick up that rock and then send information back to scientists on Earth.



SUMMER ACTIVITIES



or less

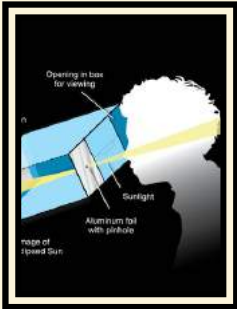
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Eclipse Cereal Box Viewer



Build a pinhole camera device using a cereal box for safe viewing of the solar eclipse. You can still enjoy the total or partial phase of the Solar Eclipse, but you need to use eye protection and/or an eclipse-viewing device for indirect viewing.

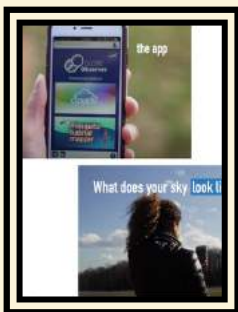


Climate Kids' Climate Time Machines

See into the past and ahead to the future with the Climate Time Machine! The visualization tool allows you to explore images of Earth and track changes over time.



GLOBE Cloud Observer App



Help NASA keep an eye on clouds using the GLOBE Observer App. When your observations are matched to satellite data, you are helping capture a complete view of the complexity of the atmosphere.



Story Time From Space



Astronauts on the International Space Station read stories and conduct science experiments for the children of Earth as the world rotates below.

Check to see if your favorite story was read in space?



Paper Cup Planetarium

Using paper drinking cups, our pre-made patterns, and a push-pin, you can make your very own constellations!



SUMMER ACTIVITIES



or less

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NASA eClips at Home: Solar System



NASA interns Lenore Miller, Sarah Adewumi, and Jacob Wologo, explore the Sun and the solar system. Learn more about some of the objects within the solar system ways to scale distances between these objects, and the power of the Sun. Create a solar oven, your own pocket solar system model, and a working paper plate sundial.



NASA eClips at Home: Simple Machines



Join NASA interns Jacob Wologo, Sarah Adewumi, and Lenore Miller, as they explore force, motion, energy, and simple and compound machines. Learn how NASA uses simple and compound machines and how to find (or create!) examples within your own home.



Infiniscope Star Party

Use a model to create stars from a stellar nebula and track those stars through their life cycles in an attempt to resolve conflicts and answer questions from party attendees.



NASA Space Place's Art Challenge



Do you love making art and using your imagination? So do we! Every NASA mission starts with a creative idea about how to explore something in a new way.

Join this art challenge: Young explorers think about and draw a space-related situation each month. And after the month is over, a few imaginative drawings will be featured on the NASA Space Place website!



Design A Crew Module

Design and build a spacecraft for your crew of mini-astronauts. The Orion spacecraft will carry astronauts to the Moon. You can design and build your version of this crew module. Add astronaut action figures and test the spacecraft to be sure your crew is safe.



SUMMER ACTIVITIES



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NASA eClips Shower Clock

Engineering Design Challenge

Enjoy making a splash as you design, measure, build, test, and re-design a shower clock to conserve and recycle water.

Elementary
Grades

Middle School
Grades

High School
Grades



NASA eClips Cloud Cover Estimator



Engineering Design Challenge

Put your head in the clouds. Design, measure, build, test, and redesign a cloud cover estimator to measure the amount of cloud cover in the sky.



NASA eClips Balloon Aerodynamics



Challenge 1 and 2

Have fun as you design, measure, build, test, and re-design a neutrally buoyant helium balloon. Then demonstrate how different forces affect motion and move balloons through a maze.



First Woman Graphic Novels &

Interactive Experiences



First Woman tells the tale of Callie Rodriguez, the first woman to explore the Moon. While Callie is a fictional character, the first female astronaut and person of color will soon set foot on the Moon – a historic milestone and part of upcoming NASA missions.



NASA eClips The Great

Boomerang Challenge

Think and act like engineers and scientists as you design, build, test, and re-design a boomerang. Once the boomerang is built, explain and demonstrate how different forces affect its flight.



SUMMER ACTIVITIES



more or less

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Elementary
Grades

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Grades

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NASA Spotlight Video Design Challenge



Join the NASA Spotlight Production team!

Help increase people's understanding of science by producing a video to correct a science misconception. Demonstrate how to conduct a hands-on activity to collect evidence.



Camp Landsat

This virtual camp explores a new theme each week about how Landsat satellites help manage, protect, and preserve some of your favorite places on Earth. Your virtual camp counselors have curated an exciting collection of videos, interactives, and downloadable activities you can do at home or with friends of all ages.



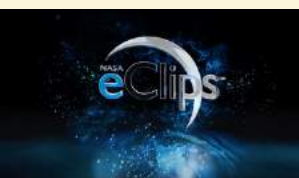
Artemis Camp Experience

This set of hands-on activities tells the story of NASA's Artemis Program that will land the first woman and first person of color on the Moon.



First Woman Camp Experience

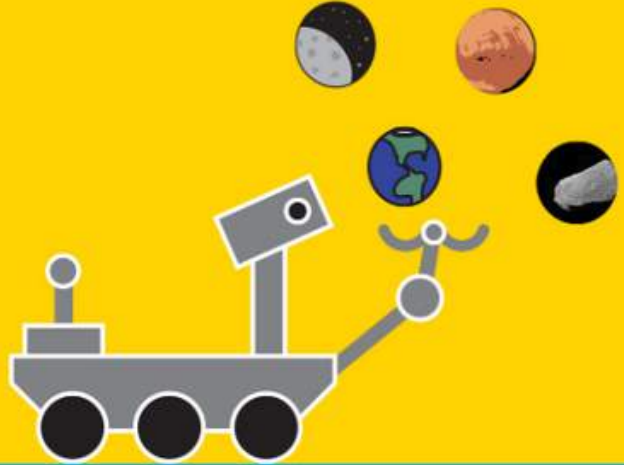
This First Woman Camp Guide will bring the excitement of NASA's science and technology missions to the Artemis generation of explorers.



Visit the [NASA eClips website](#) and explore videos, activities and lessons to increase STEM literacy through the lens of NASA

PARTNER RESOURCES

PLANETS



STEM Activities

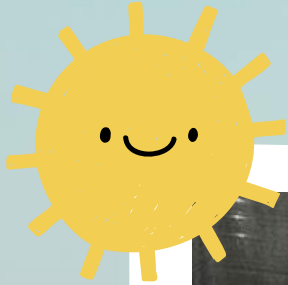
Games and fun activities about NASA science for kids 8-14 years to play independently.

- [Water in Extreme Environments Game](#)
- [Remote Sensing Investigation](#)
- [Space Hazards Game](#)

Teacher

Appreciation

Week



We Thank You!

On behalf of our team, we wanted to extend our sincere gratitude to each of you for utilizing our resources in your classrooms. Your commitment to providing high-quality STEM education to your students is truly inspiring, and we are honored to have played a small role in supporting your efforts.

It is our hope that our resources have helped to enhance your lesson plans and engage your students in the exciting world of STEM. Your feedback and suggestions have been invaluable in shaping our materials and we are grateful for your continued support.

Thank you for your dedication and hard work in preparing the next generation of innovators and problem solvers.