



**NGCP Webinar  
Chat Transcript:**

**Create Your Own Astronomy Masterpiece to Inspire and Engage**

August 13, 2024

Candid Mack: Hello everyone and welcome to today's webinar. We are happy to have you here today

Candid Mack: Please let us know where you are joining from

Tanya Dynda: What happens if we did not get the materials supplies 😞

Amalia Sollars: Amalia Sollars from Northside School District in San Antonio, TX

Diane Turnshek: Hi all, I'm joining from CMU in Pittsburgh. I do a lot of community outreach.

Karen Fabac: I think the materials come after we attend this event.

Daisy Rosas Vargas: Tongva Land

Mary Dussault: We sent supplies to the 100 folks who had registered by July 26 - If I get the names of additional registrants, we'll send kits out after the session later this week!

Tanya Dynda: Okay - thank you! I'm not sure what date I registered, but I did not yet get the supplies 😊

Maria Wren: Joining from the Palm Springs Air Museum in Palm Springs, California

Kaye Crawford: Hello Everyone! Kaye Crawford, STEMS4Girls, Tallahassee Florida

Candid Mack: Learn more about NGCP: <https://ngcproject.org/>

Swaroopaa: Hi everyone, my name is Chintana, and I am from Austin, Texas.

Maria Betancur: Maria from Liberty Science Center in NJ!

Izabella: Joining from Riverside California!

Candid Mack: Join us for upcoming webinars and events: <https://ngcproject.org/events-announcements>

Candid Mack: Subscribe to NGCP monthly e-newsletter: <http://ow.ly/Zuds30qwpOK>

Don Riefler: I am Don from The Children's Museum of Indianapolis

Candid Mack: We value your opinion. Our speakers are offering a \$15 Amazon giftcard for taking their survey.

Amanda Sullivan: Feel free to email me [asullivan@ngcproject.org](mailto:asullivan@ngcproject.org) if you registered before July 26th so we can send you the materials! (Or if you have a question about when you registered!)

Amanda Sullivan: Tell us, what are you hoping to learn today?

mrs.bauer: My space science is weak, so anything!

Megan Juza: more about telescopes

Tanya Dynda: An innovative way to engage learners in STEM

Candid Mack: Please feel free to put your answer in the chat

Swaroopaa: More about science

Kaye Crawford: Engaging conversations with the kids

Dawn Jamison: To learn about your organization. Its new to me

Marisa (she/they): I'm hoping to learn how to navigate these remote telescopes and create programming around them to share with the community

Aileen Torres: More STEM activities

ktestin: being more interactive

Eileen Koury-Judkins: I'm always looking for new ways to engage youth with astronomy

Lisa Kovalchick - PA: To excite students about space :-)

yulei gong: create telescope images that can help to discover

Amanda Sullivan: Thank you all for sharing what you are hoping to learn today!

Amanda Sullivan: Has anyone here heard of Girls STEAM Ahead with NASA?

Lisa Kovalchick - PA: Yes!

mrs.bauer: No

Amanda Sullivan: Glad you're here to learn today!

Amanda Sullivan: <https://www.universe-of-learning.org/resources/projects/girls-steam-ahead-with-nasa>

mrs.bauer: Me, too.

Liz Nusken: 😊

Amalia Sollars: No, this is new to me!

Megan Juza: nope

Maria Betancur: No but they look amazing! can't wait to look through them

Daisy Rosas Vargas: did not know

Amanda Sullivan: Glad there are so many people here who are learning about these resources for the first time!

Erika Wright: Microobservatory.org

Candid Mack: Please let me know if you are having any issues accessing the page

Aileen Torres: I missed the QR code. Is there a way to share that again

Susan Eslami: Hello could you please share the slides and recording at the end of the session by email. I am missing most of it since we are required to attend meetings for school today- staff in service day.

Amanda Sullivan: Yes, we will have the slides, recording, and chat transcript available after the webinar!

Susan Eslami: Thank you so much, I really appreciate it!

Martha I. Saladino: We will publish the slides, associated materials, and a recording of today's webinar on this website: <https://www.universe-of-learning.org/contents/events/gsawn/create-your-own-astronomy-masterpiece-to-inspire-and-engage>

Susan Eslami: Thank you

Swaroopaa: 60 seconds

Amalia Sollars: 30 seconds - not optimal! :)

Susan Eslami: Is "red filter" filtering everything but red, or is it filtering red?

Amanda Sullivan: So exciting! I can't wait to get my image tomorrow

yulei gong: it filters out the blue completely

yulei gong: and some of the green

yulei gong: sorry!!

ktestin: will see everything in that color

Susan Rolke: only see the red

Izabella: the red will disappear ?

Michelle Berry: Only the red circle

Megan Juza: I can see the red

Candid Mack: Please share what you are seeing

yulei gong: it basically enhanced

yulei gong: the color that the filter is

mrs.bauer: My green must be a little off because I can still a bit of the green circle.

ktestin: red stands out and white letters appear red. I saw a faint circle where yellow is.

Lisa Kovalchick - PA: I can also see the green one, but it is somewhat translucent.

Amanda Sullivan: yes, same for me

Susan Eslami: Thank you!

Emily: That is an effective demonstration, much better than using LED lights and colored filters alone (I've been around with NASA PD).

mrs.bauer: agree!!

Candid Mack: Breakout sessions are happening now

Amanda Sullivan: If there were questions that came up in your breakout groups, feel free to share in the chat

Alexander Cotnoir (he/him): A great idea that was brought up in our breakout group: Participants could go through the image selection process in pairs or small groups. This makes it a very collaborative process - just like science!

Emily: There is a NASA/AAPT lab about looking for habitable planets (geared toward physics classes, but it has a great photon activity connecting the color of the photons to specific chemicals)

Amanda Sullivan: That's a great idea, thanks for sharing!

Diane Turnshek: 237

Daisy Rosas Vargas: 237

Tanya Dynda: D8

Lisa Kovalchick - PA: 216

Michelle Berry: 237

Amalia Sollars: 237

yulei gong: if the grid becomes finer, would the number in each little square be different?

Candid Mack: Great question

Martha I. Saladino: [Bit.ly/JS9Image](https://bit.ly/JS9Image)

Maria Betancur: dots of white

Martha I. Saladino: White dots

Alexander Cotnoir (he/him): There are a few white streaks and dots.

Michelle Berry: white dots and white lines

Lisa Kovalchick - PA: Can someone post the URL?

Aileen Torres: The white dots are starting to streak

Mary Dussault: <https://waps.cfa.harvard.edu/eduportal/js9/software.php>

Tanya Dynda: <https://bit.ly/JS9Image>

mrs.bauer: The streaks are longer toward the outside.

yulei gong: does the line indicate that the object was moving and that's the tail?

Candid Mack: Great question. Mary will answer that shortly.

Amalia Sollars: 344?

mrs.bauer: Where do you find that number?

mrs.bauer: nvm

Tanya Dynda: Beautiful!!!!

Marisa (she/they): Amazing!

Amanda Sullivan: Wow!

Maya Joyce: Does the microobservatory take calibration frames (dark, bias, or flat)?

Erika Wright: MicroObservatory takes dark calibration images

mrs.bauer: Is there a place to find out what each of the archived images are? I would have had no idea that Cas\_A\_Chandra is an exploded star.

Alexander Cotnoir (he/him): Great question! One resource to check out (also from NASA's Universe of Learning) is Astropix. You can search for the object's common or scientific name on <https://www.astropix.org/> and it will have the object type listed. 😊

Maya Joyce: Are those sent with the images in the email?

Erika Wright: Yes, the dark images are also sent in the email

Maya Joyce: awesome, thank you!

Don Riefler: Are there any plans to make the site more mobile-friendly? I can see using this as a teaching tool with folks using their own phones, but everything's pretty small on mobile

Tanya Dynda: Scale

Tanya Dynda: make it log

Tanya Dynda: green

Michelle Berry: green

Amanda Sullivan: Amazing!

Tanya Dynda: So Awesome!!!!

Amalia Sollars: super cool!

Dawn Jamison: That is pretty cool

Candid Mack: Time for our final break out session

Hasret Balcioglu: Thank you for this wonderful event...

Erika Wright: <https://mo-www.cfa.harvard.edu/OWN/pdf/AstropoetryFinal.pdf>

Erika Wright: <https://mo-www.cfa.harvard.edu/OWN/training.html>

Marisa (she/they): Is there a way to zoom into particular parts of the image? Right now it seems like it just zooms into a central point

Erika Wright: The Panner tool allows you to select a specific area of the image. Or if you just want to peek at an area the magnifier is another great option.

yulei gong: just wonder if the pixel table is downloadable?

Amanda Sullivan: If you enjoyed this webinar, support the work of the National Girls Collaborative: <https://ngcproject.app.neoncrm.com/forms/donation>

Amanda Sullivan: Join us for upcoming webinars and events: <https://ngcproject.org/events-announcements>

Lisa Kovalchick - PA: How do we get to these other activities?

Martha I. Saladino: <https://www.universe-of-learning.org/resources/projects/girls-steam-ahead-with-nasa>

Amanda Sullivan: After the webinar wraps, we hope you will complete our speaker's post-webinar survey. You will receive a \$15 Amazon gift card as a thank you for completing it: [https://grginc.co1.qualtrics.com/jfe/form/SV\\_cOpfA8SwYlzSwAK](https://grginc.co1.qualtrics.com/jfe/form/SV_cOpfA8SwYlzSwAK)

Maya Joyce: I am not sure if something like this is in there, but you can use a large ice cube tray as the pixels and plastic beads (or rice or anything else you have) as photons to demonstrate the data in a fits file. This can be really helpful for showing oversaturation (if you dump too many beads in one cube, they will spill out)

Erika Wright: There actually is an activity like this, but I'm having trouble finding the link at the moment. It's called pixel to picture!

Martha I. Saladino: The facilitator's guide is here: <https://www.universe-of-learning.org/contents/products/girls-steam-ahead-with-nasa-program-cookbook>

Amanda Sullivan: If you didn't receive your materials kit, feel free to email me at [asullivan@ngcproject.org](mailto:asullivan@ngcproject.org) and I will follow up with the speakers to make sure you receive it!

yulei gong: yes, right

Rutuparna Das: This is a really cool idea!! I don't think we have this in there yet...

Maya Joyce: I did something similar in college and it was super helpful for understanding the concept of a ccd camera

mrs.bauer: I tried to save the image from my iPad. I can't figure out how to save it. I can print it.

Carolyn Slivinski, STScl: Did you check your "Download" folder to see if it's there?

mrs.bauer: It's not there

Rutuparna Das: There should be an option to save under the "image" tab. Can you see that

Alexander Cotnoir (he/him): Sometimes (for iPhone) it also saves as a file in the "Books" application that comes with your phone. You can open it from there and take a screenshot, or save it to your camera roll.

mrs.bauer: It opened in a new tab.

Marisa (she/they): Thank you!

Candid Mack: Remember to please complete our speaker's post-webinar survey. You will receive a \$15 Amazon gift card as a thank you for completing it:

[https://grginc.co1.qualtrics.com/jfe/form/SV\\_cOpfA8SwYlzSwAK](https://grginc.co1.qualtrics.com/jfe/form/SV_cOpfA8SwYlzSwAK)

Amanda Sullivan: That 3D print is so cool!

Maria Betancur: where do you get the 3d file?

Alexander Cotnoir (he/him): [https://chandra.cfa.harvard.edu/tactile/3d\\_printing.html](https://chandra.cfa.harvard.edu/tactile/3d_printing.html)

Candid Mack: Thank you everyone for joining.

Maria Betancur: Thank you!

(K-6) Maria Vander Plaats (she/her): Thank you!

Michelle Berry: Thank you. Enjoyed it.

Diane Turnshek: Much appreciated. Thank you! Well done.

yulei gong: thank you!

Marisa (she/they): Thank you!

Lisa Kovalchick - PA: Thank you :-)!

Tanya Dynda: Thank you so much!!! 😊