

# NGCP Vision

The vision of the National Girls
Collaborative Project is to support and
create STEM experiences that are as
diverse as the world we live in.



# Our Goals

Connect + Create + Collaborate

Build and sustain a network

of advocates to provide equitable and inclusive STEM opportunities.

2

Catalyze equity in STEM

from research to practice by providing actionable knowledge that transforms the STEM experience.

3

Increase our collective impact

by strengthening organizational effectiveness and enhancing our fiscal sustainability.

# NGCP Activities

- Network Partnerships
- IF/THEN Collection
- State Leadership Teams
- Youth Advisory Board









# Today's Presenters



Dr. Martha Saladino **Education and Outreach Scientist** Space Telescope Science Institute



Laura Woody **Assistant Director** Sequatchie County Public Library Boys & Girls Clubs of Carson



**Lindsay Rowe** STEM Coordinator



**Matt Kirschner** Children's Services South Brunswick Public Library



Lisa Broomall Youth Services Coordinator Anna Porter Public Library





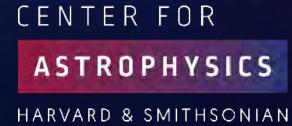
## Girls STEAM Ahead with NASA

#### Dr. Martha Irene Saladino

**Education & Outreach Scientist** 

Space Telescope Science Institute













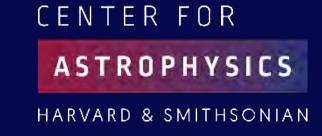
NASA's Universe of Learning is an integrated astrophysics STEM learning and literacy program funded by NASA



Learners of all ages and backgrounds are engaged and immersed in exploring the universe for themselves



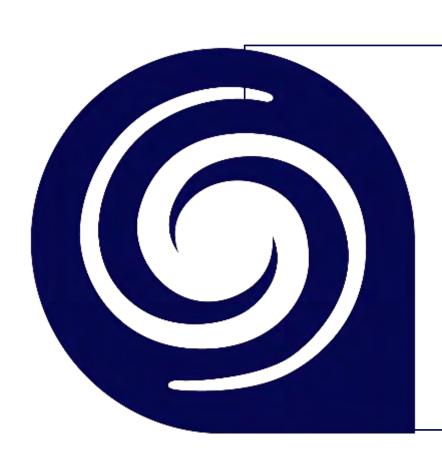




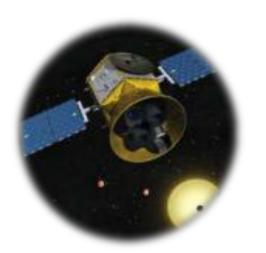








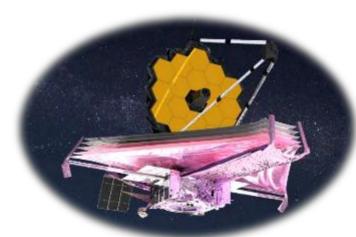
Direct connection to the NASA's science & missions



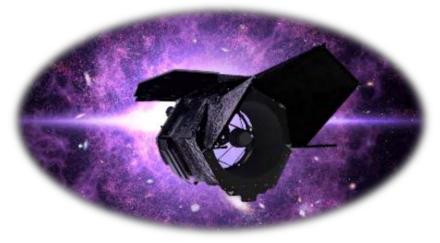




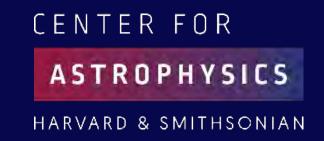
















## NASA's Universe of Learning Themes

How does the universe work?

Are we alone?

How did we get here?



Life and Death of Stars



Origin & History of the Universe



Structure & Composition of the Universe



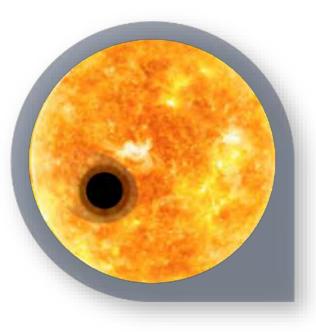
Other Solar Systems,
Other Earths



Cosmic Mysteries



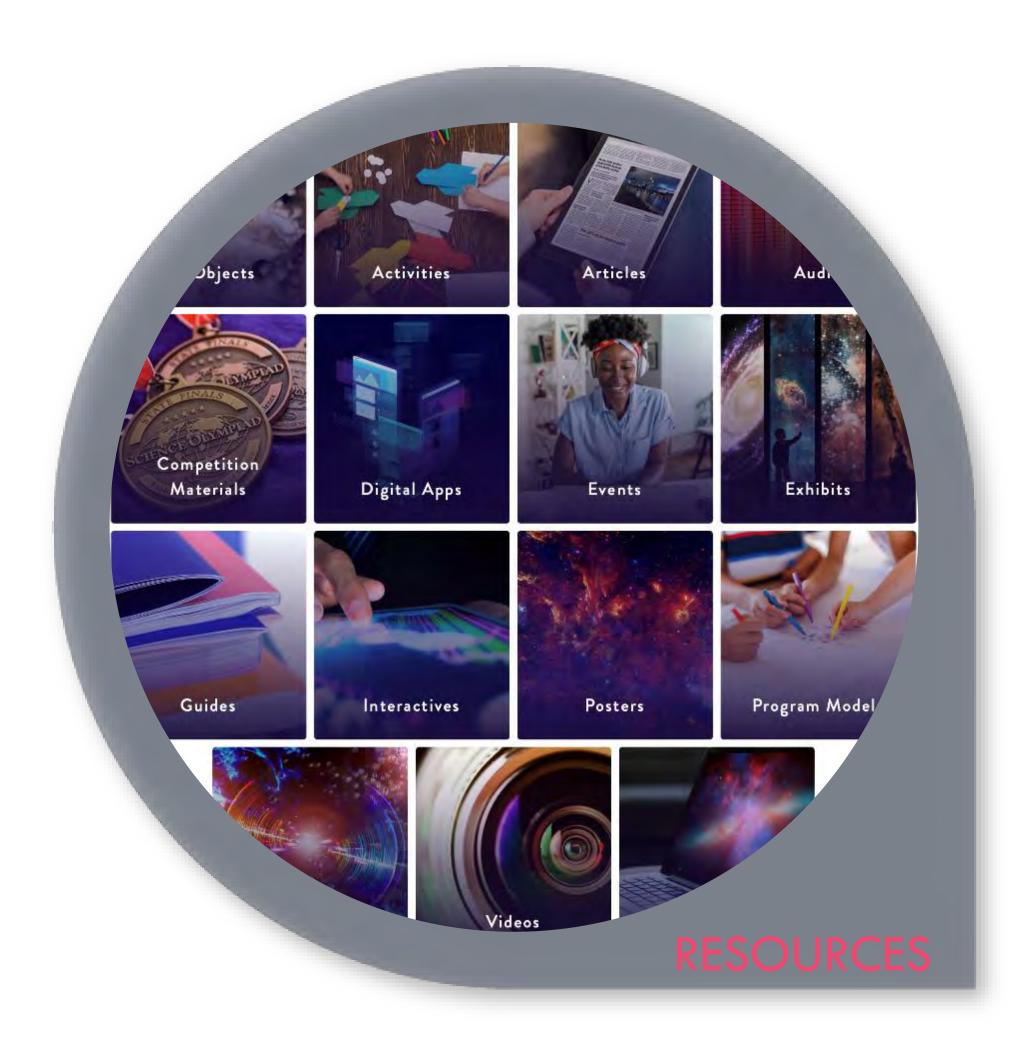
Extreme Physics & Phenomena



How Do We Know?



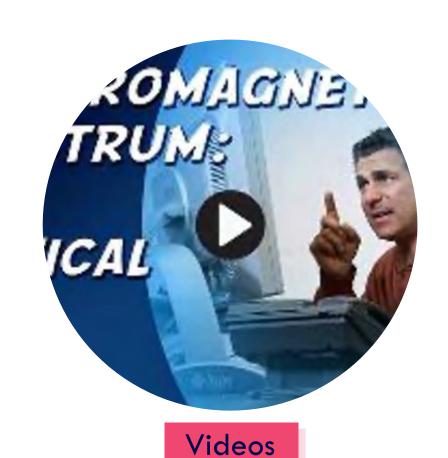


















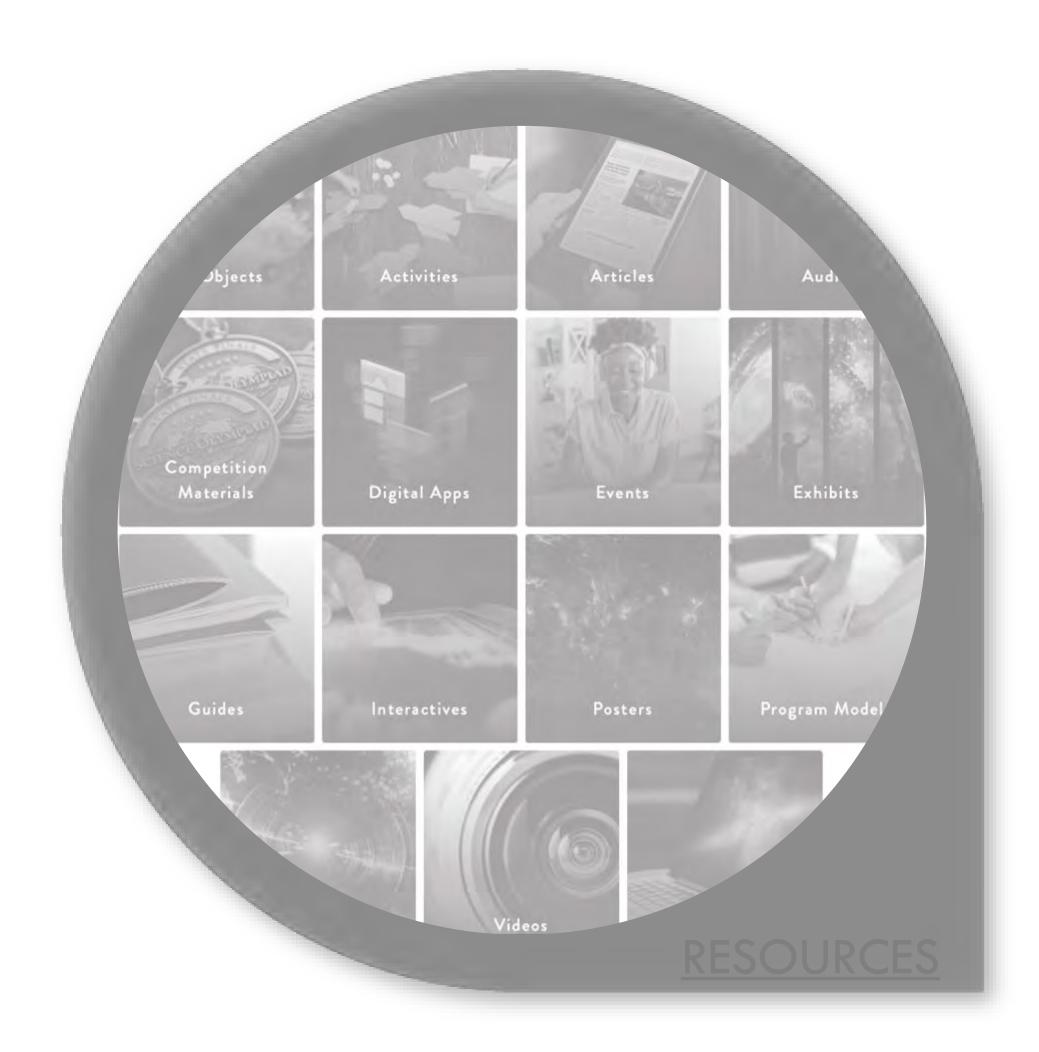




Poster





















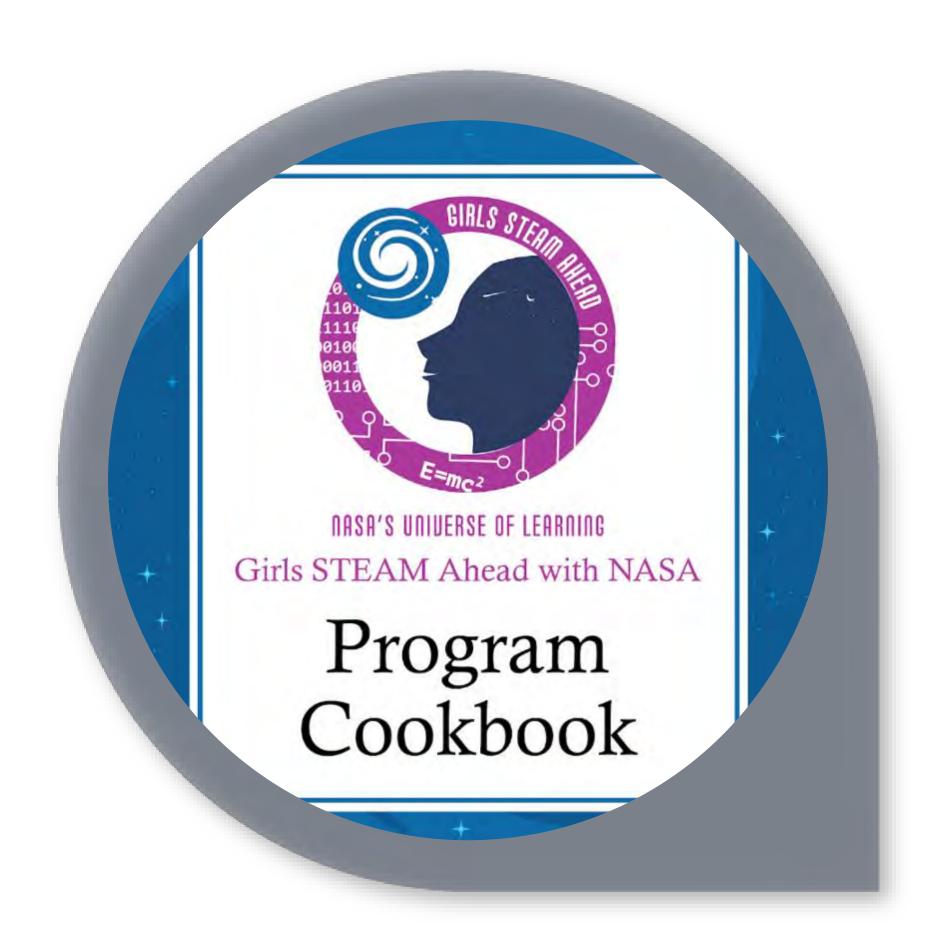


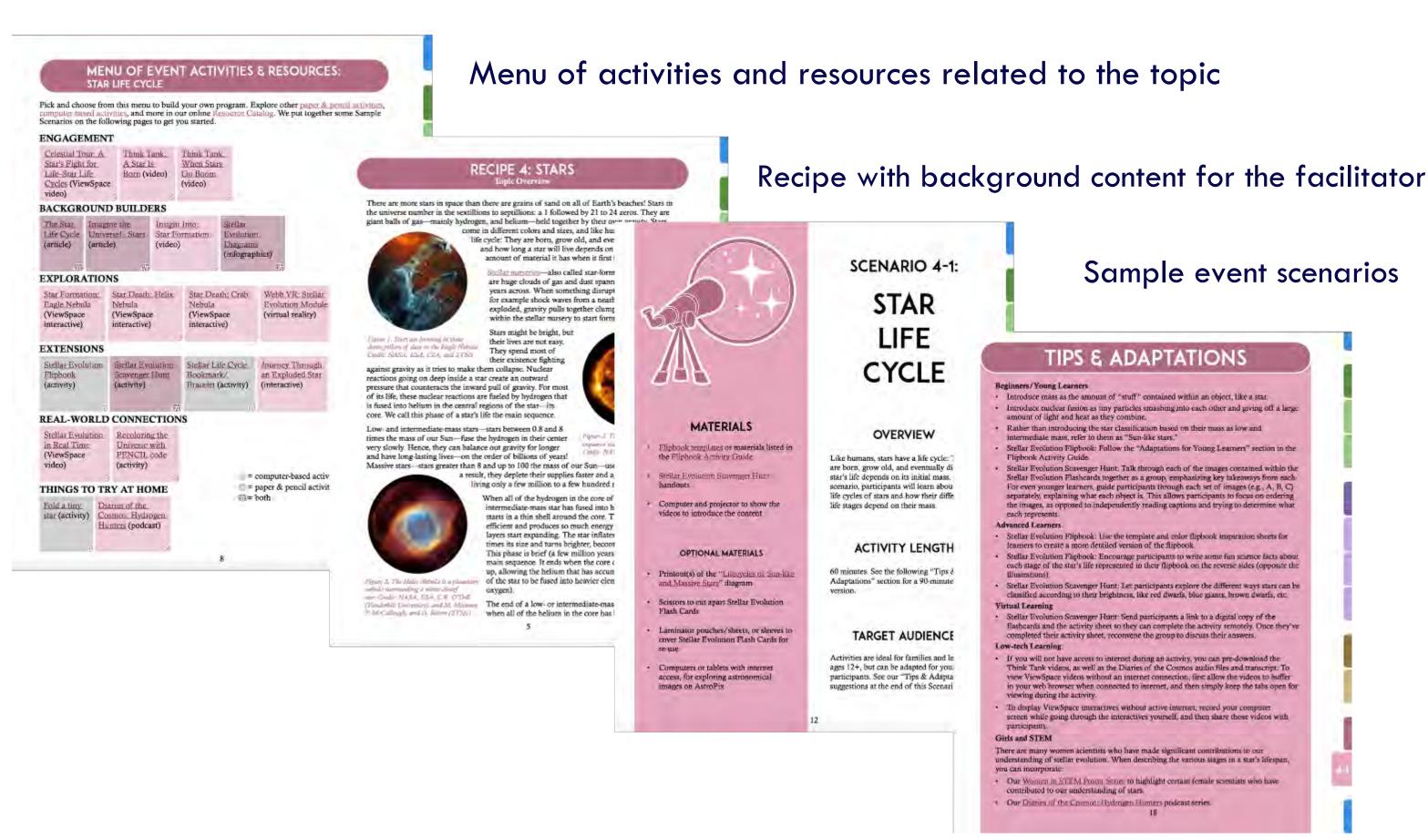
Our aim is to empower public libraries and community-based organizations to engage girls and their families in STEM





#### **GSAWN Program Cookbook**





#### GSAWN Program Cookbook – Recipe 4: Stars



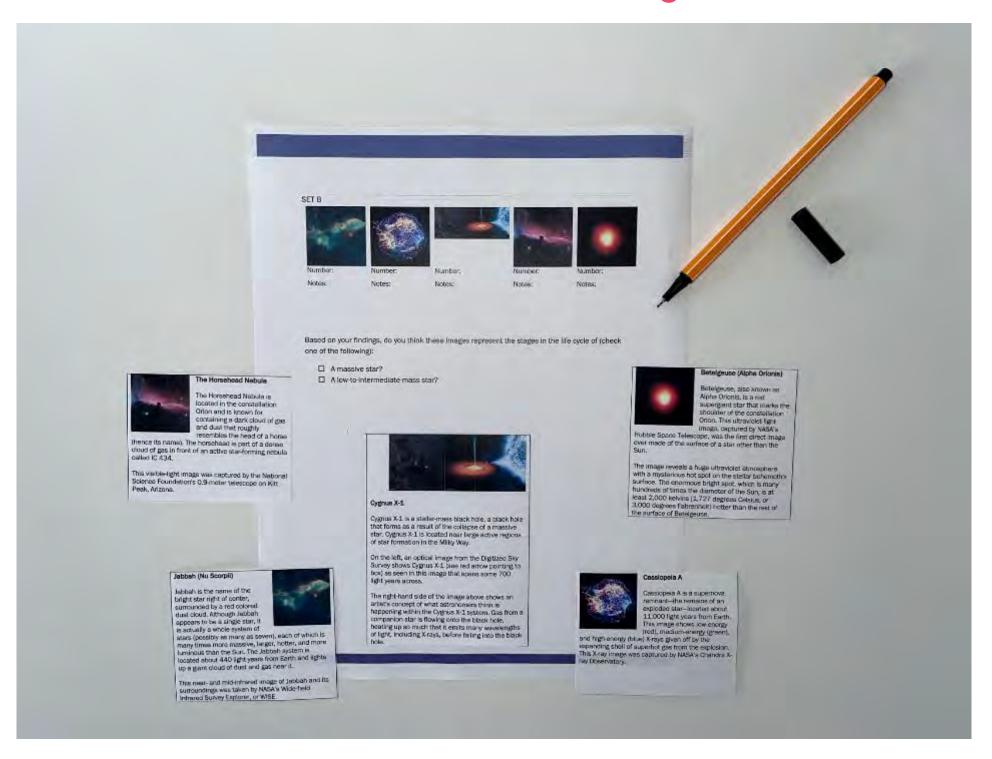
#### Stellar Life Cycle Bookmark/Bracelet



#### GSAWN Program Cookbook – Recipe 4: Stars



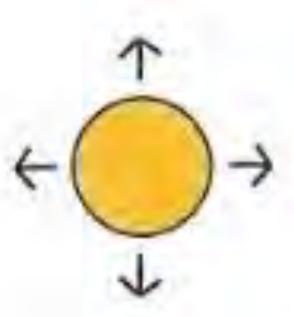
#### Stellar Evolution Scavenger Hunt



#### GSAWN Program Cookbook - Recipe 4: Stars



Stellar Evolution Flipbook











## Contact us...

https://www.universe-of-learning.org/gsawn

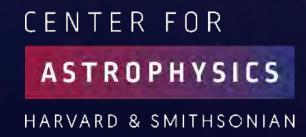
Email: girlsSTEAMahead@universe-of-learning.org

Request a NASA Subject Matter Expert for your GSAWN event <a href="https://www.universe-of-learning.org/informal-educators/request-an-expert">https://www.universe-of-learning.org/informal-educators/request-an-expert</a>

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Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Aeronautics and Space Administration.











## Who We Are



Afterschool Service Provider who targets
young people who need us most through
targeted programs and high-yield
activities



## Who Our Kids Are





#### **Key Demographics**

#### **Race/Ethnicity**

- > 33.7% Hispanic
- > 28.8% Black/African
  American
- > 5.1% Asian & Filipino
  - > 4.5% Other
  - > 3.9% Latino

#### <u>Gender</u>

- > 50.86% Male
- > 48.87% Female
- > 0.26% Other

#### Free/Reduced Lunch

**82.94%** 

# STEM Demographics

- ➤ 1847 members attended at least 1 STEM program
  - > 18 sites







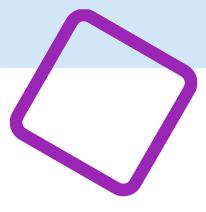
## Targeted Students





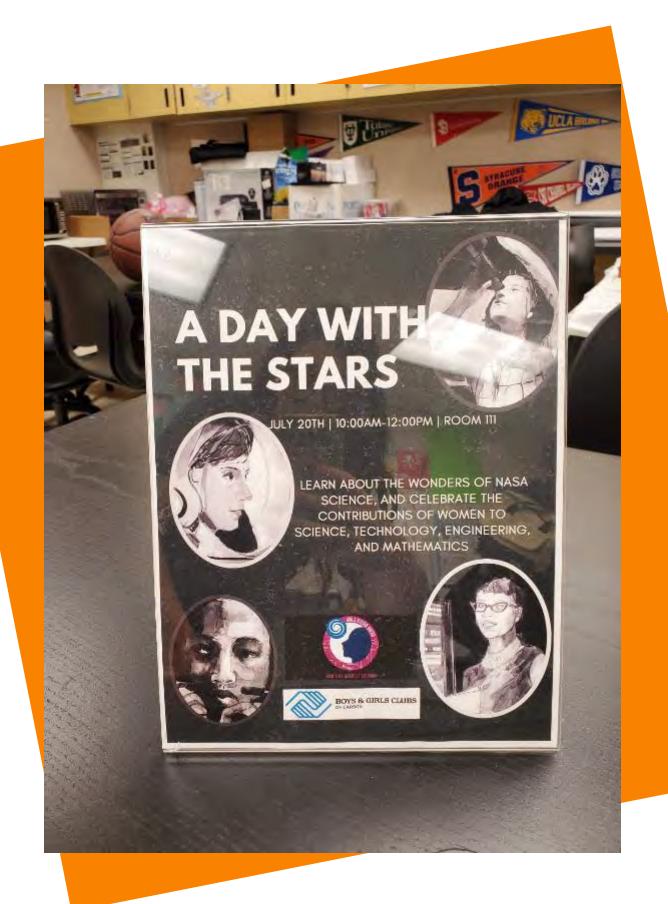


- > Students are wary of STEM
- King Drew HS targeted for career-focus and exposing students to BIPOC women in space science.
- > 186<sup>th</sup> St. ES targeted for STEM interest and building STEM confidence.



### **GSAWN Event**

King Drew Magnet High School | July 20th



### Activities

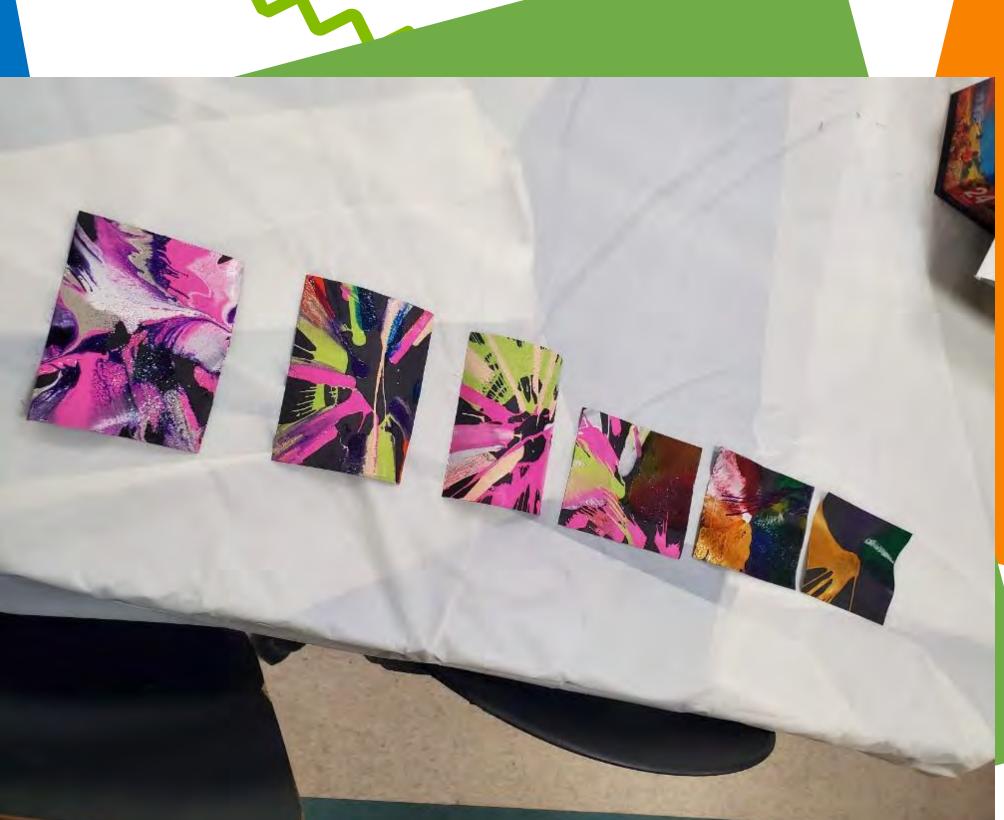
- Nebula Spin Art
- Galaxy Circuit Cards
- Chandra X-Ray Recoloring the Universe
  - DIY Women in STEM Zine

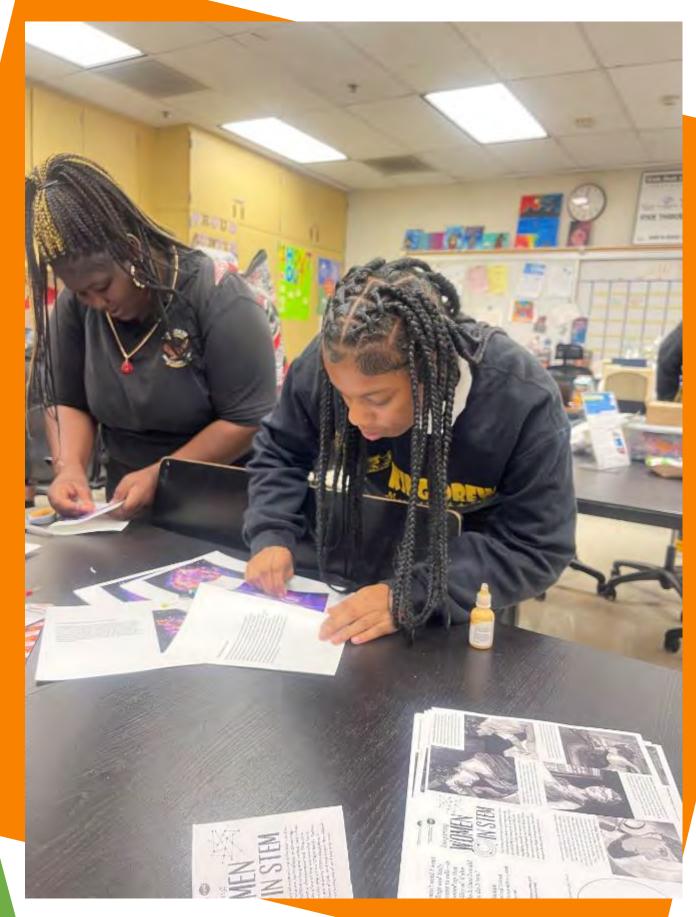


Students Impacted =

**15** 



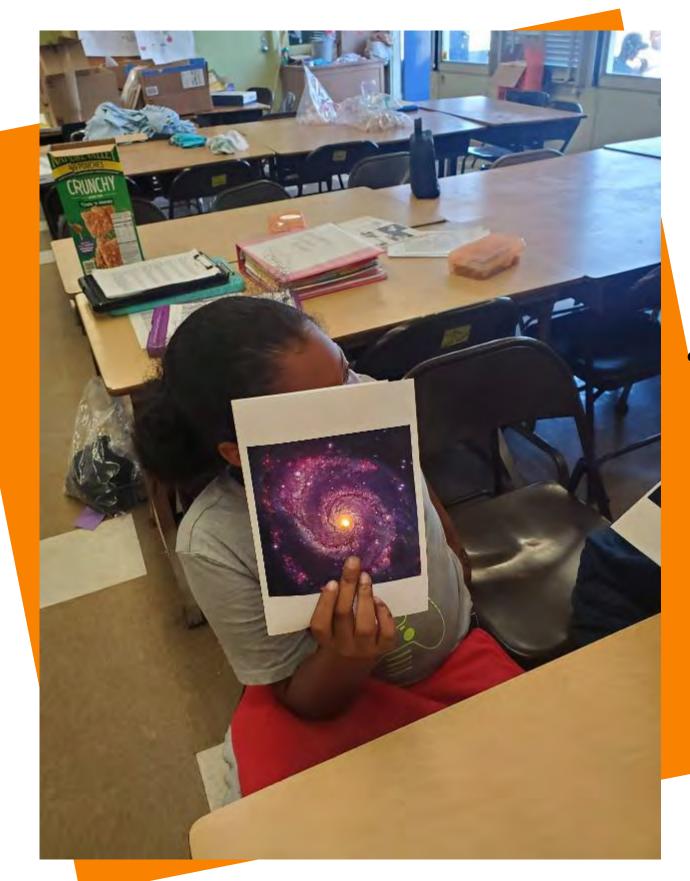






## **GSAWN Event**

186<sup>th</sup> Street Elementary | July 24th



### Activities

Galaxy Circuit Cards
 Chandra X-Ray Recoloring the Universe

Students Impacted

<u>19</u>





## Lessons Learned

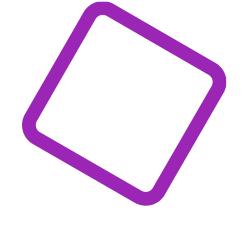


- 1. Train additional staff to lead program to expand reach.
- 2. Consider time constraints; we run program for 1 hour each.
- 3. Anticipate learning-level of students and lesson impact.









# GSAVVN Impact





#### **GSAWN Event**

- Highly engaging and educational
- Youngest students brought their own knowledge and passion
- Inspired students they can be space scientists

#### **Post GSAWN Event**

- 7 Additional school sites ran Astronomy Week using GSAWN and NASA's Cookbook lesson programming
- Students reporting it is their most enjoyable lesson this school year

