Level Up Your Facilitation and be a "Guide on the Side" for Virtual and In-Person STEAM Programs

October 22, 2020; 1:00 pm MT

1) Please introduce yourself in the chat. You won't have microphone access for today's webinar.

2) You can find today's "Link Bank" at: starnetlibraries.org/blog

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A National Earth and Space Science Initiative that Connects NASA, Public Libraries and their Communities



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ALA

Facilitator Introduction

• Keliann LaConte

Brooks Mitchell

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NCIL

National Center for Interactive Learning

NASA@ My Library

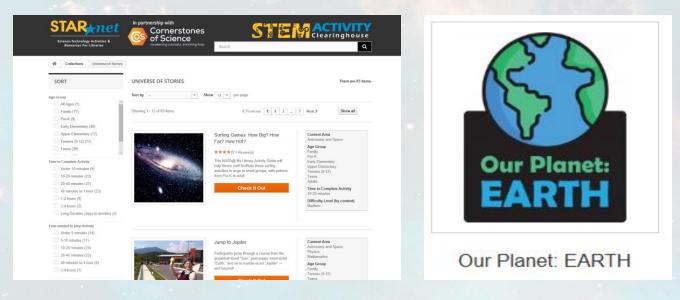
SPACE SCIENCE

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cience-Technology Activities Resources For Libraries

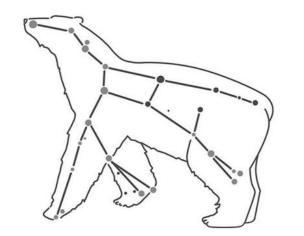




Like an activity and think other library staff should know how great it is? Didn't like an activity or have modifications to make it better? <u>Make sure to leave a</u> review!

Virtual Programs

Use this featured resource to add easy, hands-on STEAM activities (using common household materials) to your online Story Time programs. Note: Book recommendations are included.



Virtual Program: Sky Heroes

Participants celebrate their heroes by creating connect-the-dot star patterns to represent them.



Families at Home

Below is a set of resources that can be provided directly to families without the need of facilitation by library staff.



Hands-on Activity: Daylight in a Bottle

Celebrate Earth Day at home by harnessing the power of natural resources! This <u>family guide</u> explores how you can read a secret message from a friend or light up a room with just two things: free, clean energy from the Sun and a water bottle.

The activity has a how-to video (below) as well as a short, four minute video, "A Liter of Light <u>
<u>
</u>Night", showing how this technology has been used practically in other countries.
</u>



Refresh Your Skills

Keep your skills sharp by revisiting these professional development resources.

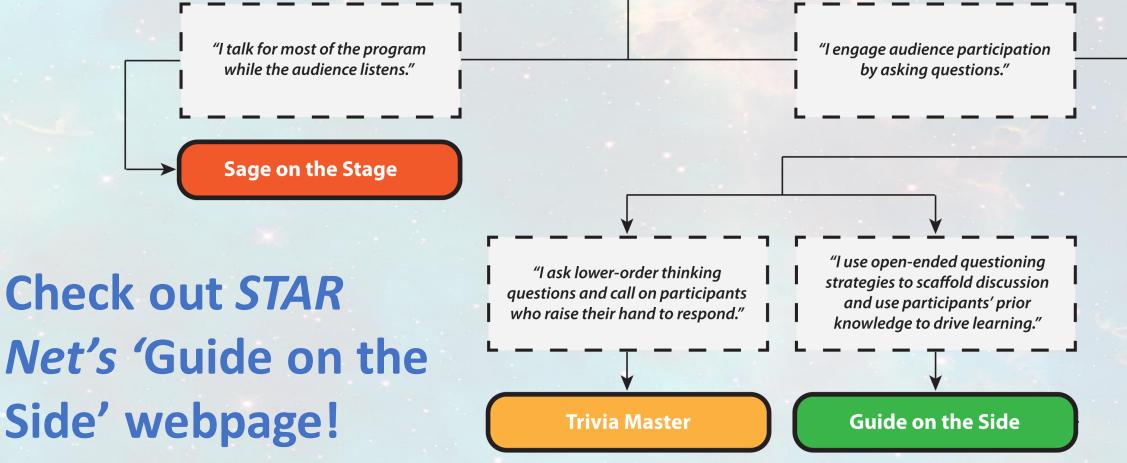


Webinar: Imagine Your Story... with a STEAM Twist!

Join the *STAR Net* team and Luke Kralik, Organizational Coordinator for CSLP, in this recorded webinar to learn all about this year's theme and exciting, hands-on **STEAM** activities that will help you bring it to life at your library. We'll discuss programming ideas, useful resources, and tips for engaging your community!

View This Week's Webinar

What Facilitation Style Do You Use?



http://www.starnetlibraries.org/resources/guide-on-the-side/

STEAM Learning in Public Libraries: A "Guide on the Side" Approach for Inclusive Learning

Authored by Brooks Mitchell, Claire Ratcliffe, and Keliann LaConte

STEAM Learning in Public Libraries

A "Guide on the Side" Approach for Inclusive Learning

BROOKS MITCHELL, CLAIRE RATCLIFFE, AND KELIANN LACONTE



STEAM learning at Tom Greene County Library in San Angelo, Texas.

Association for Library Service to Children's (ALSC) *Children and Libraries* journal; Vol 18, No 3 (2020)

journals.ala.org/index.php/cal/issue/view/773 Or bit.ly/2TdWcgK

IdeaBoardz Question (pt. 1):

bit.ly/31v6T2M

What is the best part about Fall?

IdeaBoardz Question (pt. 2):

https://bit.ly/2HoD3q2

What "STEAM" connections can you think of for the Fall season?

Open-Ended Question

What is a "STEAM" learning experience in your life that really stands out and/or had a big impact?

Reflective question. Can share in chat if you want to.

 (Keep this in mind as we are going through STEAM Facilitation Pathways!)

Agenda Overview

- Intro/Icebreaker
- STEAM Learning Pathways
- Guide on the Side "Moves"
- Activity
- Poll/Discussion

Learning Expectations

Begin with 'Guide on the Side' philosophy and end with discussion

We are not library staff; we are counting on you all to share your experience!



Facilitation Styles



Illustration by Kevan Mills. Credit: Space Science Institute



"Sage on the Stage"

- Focus is on the instructor
- Delivers a lecture
- Audience as passive listeners

The Earth and the Moon



Il lustration by Kevan Mills. Credit: Space Science Institute

"Trivia Master" (or Initiation-Response-Evaluation)



Facilitators Ask closed questions Control discussion Do majority of talking

Patrons Recall, list, recite, label Rewarded for "correct" answers

Illustration by Kevan Mills. Credit: Space Science Institute



Credit: NASA's Scientific Visualization Studio

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exploration

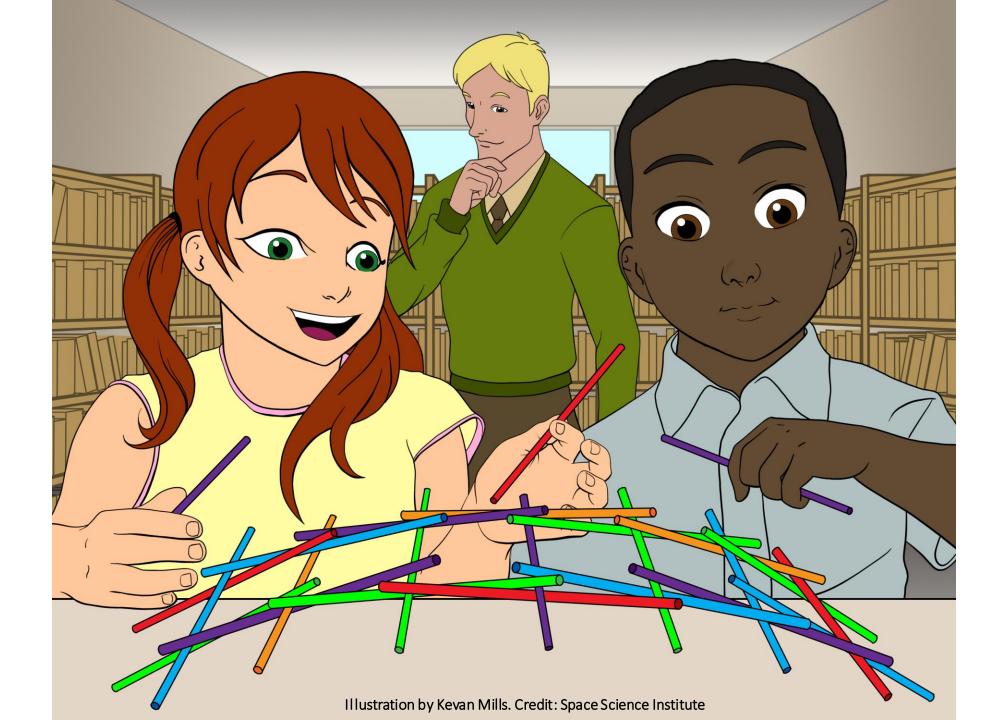


inquiry

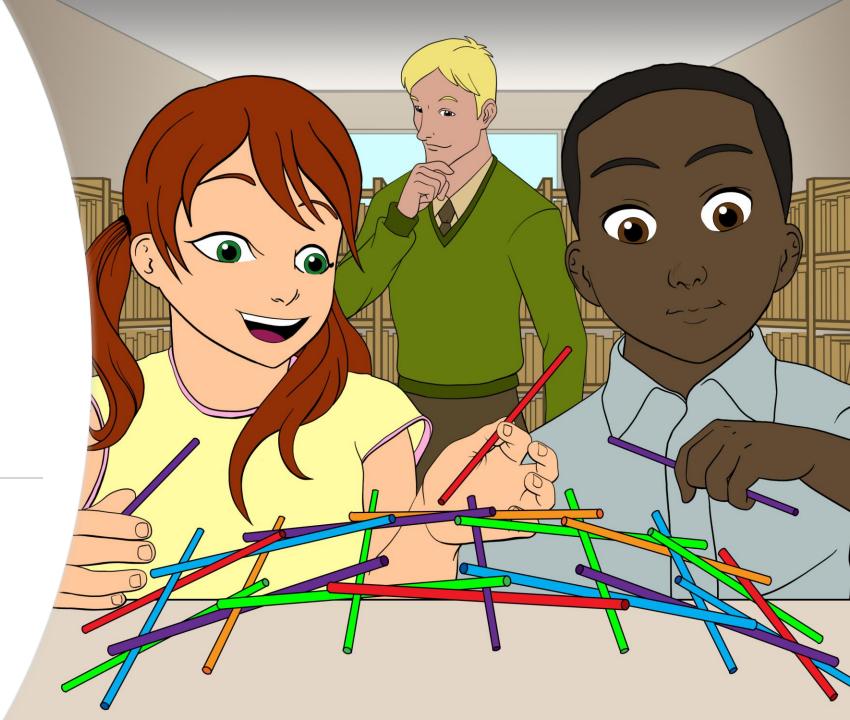
Credit: Muhlenberg Community Library

creativity

Credit: Prince George's County Memorial Library System



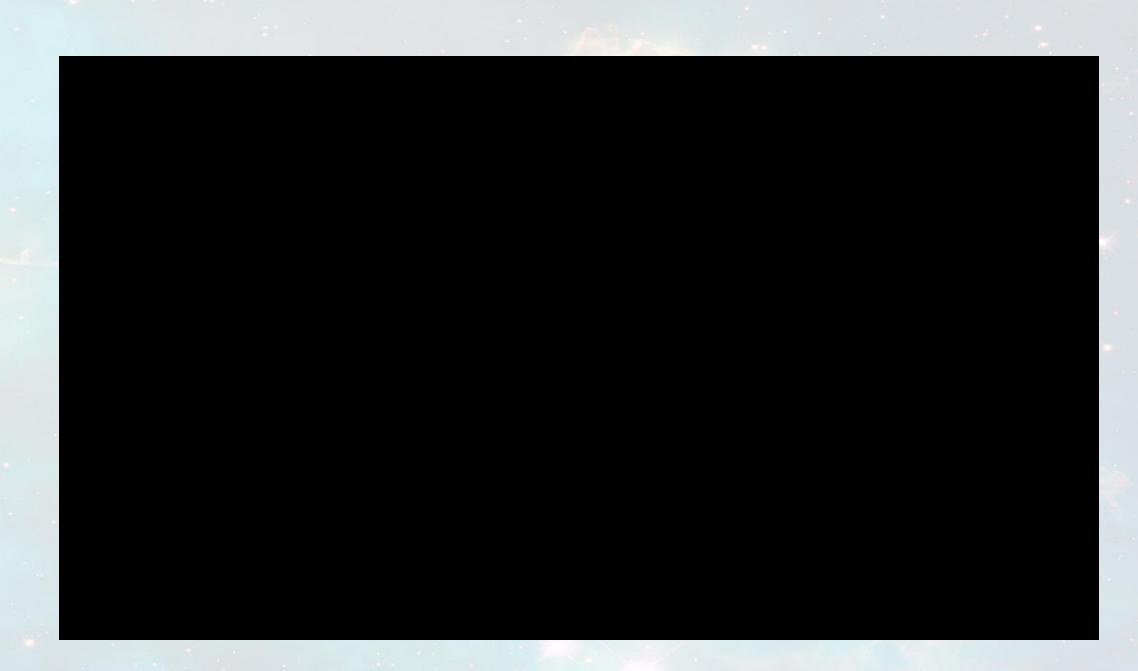
"Guide on the Side"



Credit: Space Science Institute/African-American Research Library and Cultural Center

Credit: Space Science Institute/African-American Research Library and Cultural Center

Credit: Space Science Institute/High Plains Library District



Originally published Aug 11, 2015 © Click2SciencePD.org; University of Nebraska–Lincoln



"Guide on the Side" Strategies for Your STEM Programs

Strategy!

Create a safe learning environment

Credit: Space Science Institute

I don't know...let's find out together!

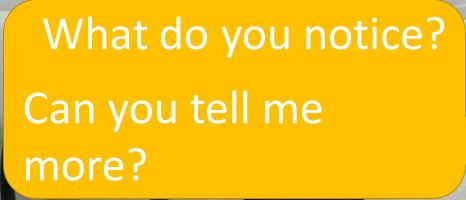
That is an interesting thought! How did you come up with it?

Open-ended questions

Credit: Space Science Institute/High Plains Library District

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Strategy 3









What did you observe?

Illustration by Kevan Mills. Credit: Space Science Institute

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Wait Time

Wait approximately 5 seconds after asking a question.

Respond to someone who took longer to form his or her thoughts.

Gives time for learners to think about and articulate their ideas.

Credit: Prince George's County Memorial Library System

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FRIDAY

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"Turn and Talk"

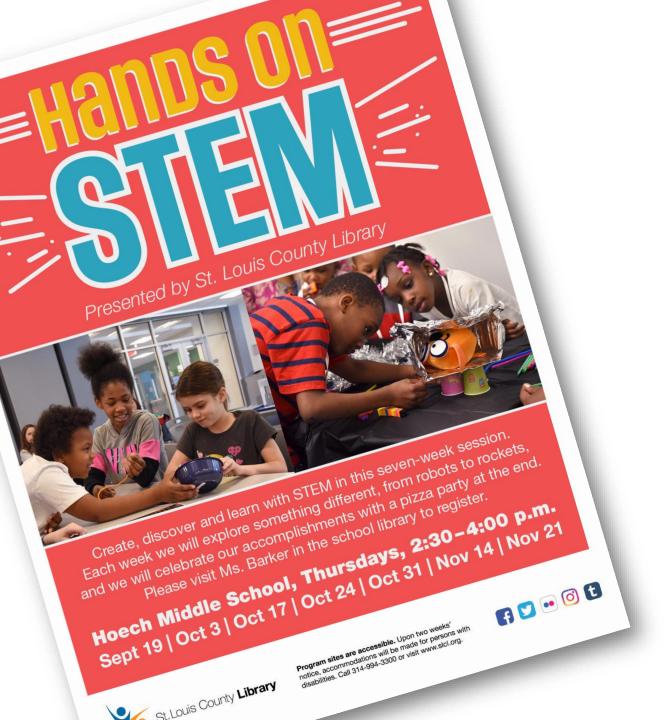
Illustration by Kevan Mills. Credit: Space Science Institute

Please turn and tell your family member or friend your ideas.



"Help each other figure this out. Take your time. I will come back in a few minutes to see how you're doing."

Strategy





clearinghouse.starnetlibraries.org



Find common and shared experiences for patrons



Credit: Space Science Institute

Exploring the Scale of Our Solar System

Earth's Bright Neighbor



grape or blueberry

peppercorn

Credit: NASA's Scientific Visualization Studio

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Is inches (38 cm) grape pe or blueberry

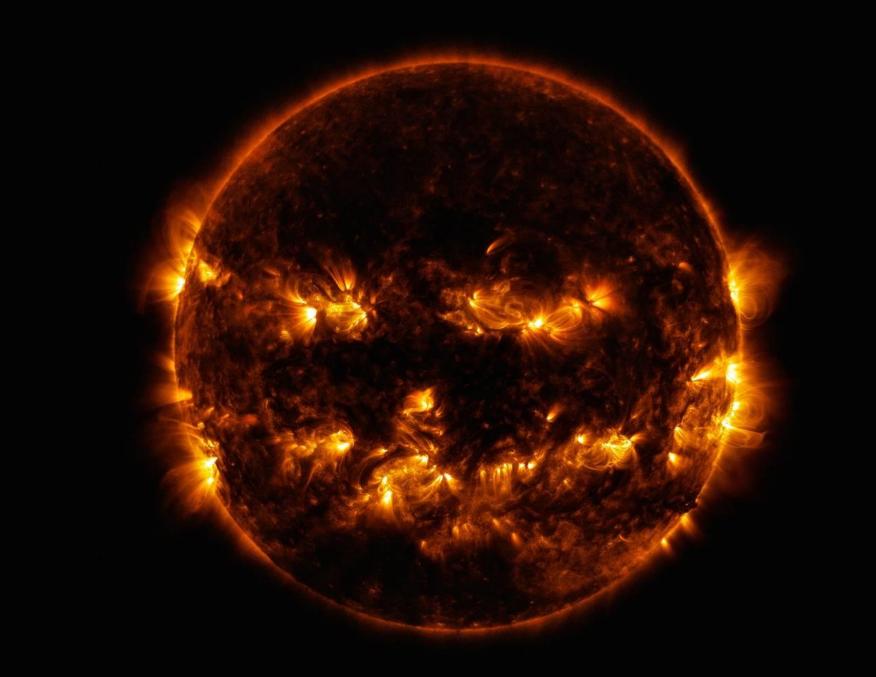
peppercorn

Credit: NASA's Scientific Visualization Studio

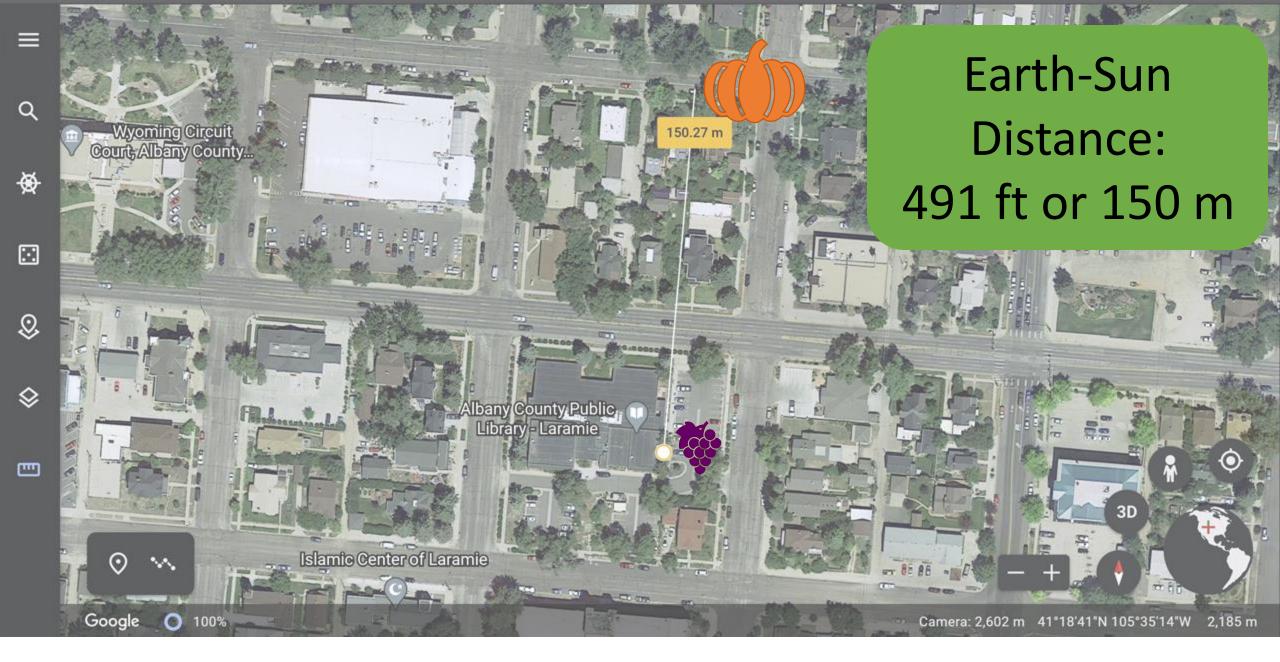
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Giant pumpkin (or Halloween orange pumpkin garbage bag) 55 inches wide



Credit: NASA/GSFC/SDO



Credit: Google Earth



Which learning pathway did your STEAM Learning Experience fit into?

bit.ly/3m7BRG4

Or

https://ideaboardz.com/for/Brooks/3476280



In what ways are you already using *Guide on the Side* strategies for your library programs?



How can you be a Guide on the Side with virtual programs?

What ideas, suggestions, or tips do you have to increase interactivity?



What ideas do you have for incorporating art into your virtual STEAM programs?

Thank you!

Any questions?