

Welcome!

NGCP National Webinar: *STEAM Resources for Libraries*

Please respond to the poll on your screen.



National Girls
Collaborative Project



STEAM Resources for Libraries

May 17, 2022

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

1

Maximize access

to shared resources within projects, and with public and private sector organizations and institutions.

2

Strengthen capacity

of existing and evolving projects by sharing exemplary practice, research, and program models, outcomes, and products.

3

Create the tipping point

for gender equity in STEM by using the leverage of a network and the collaboration of individual girl-serving STEM programs.

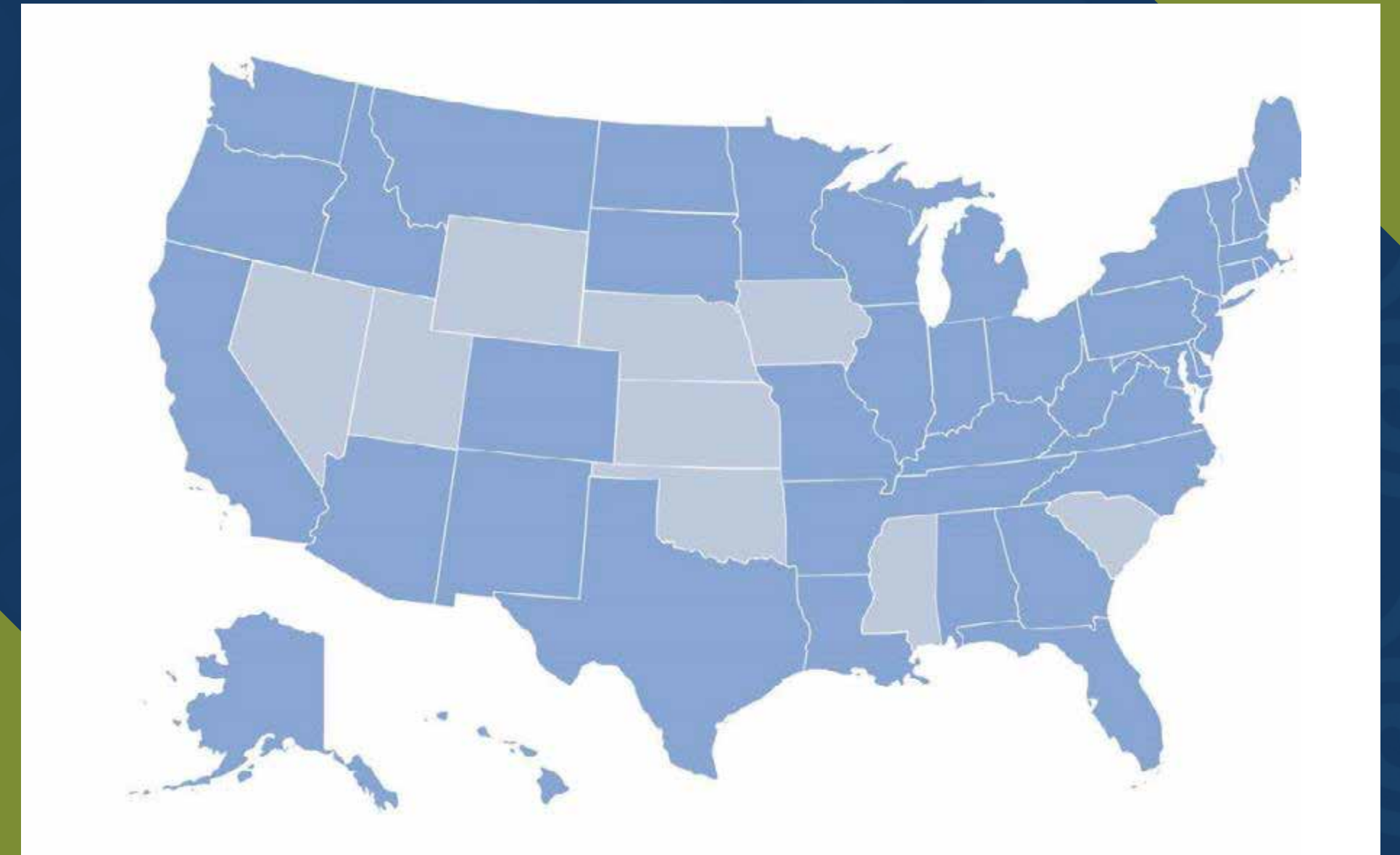
NGCP Activities

- Network Partnerships
- IF/THEN Collection
- The Connector
- FabFems
- National Webinars



A National Network Of Collaborative Teams

- NGCP programs and partners are in every state
- With 33 Collaboratives that support 41 states
- Together, we facilitate collaboration across 42,500 organizations
- Serving 20.2 million girls and 10 million boys



Speakers



Timothy Rhue II

Principal Informal Education Specialist
at the Space Telescope Science Institute



Robin Salthouse

Library Services Consultant working
With SciStarter.org and Arizona State University



Tara Cox

NGCP staff working in collaboration to
scale the Leap into Science Program

VIEWSPACE

EXPLORE THE UNIVERSE WITH INTERACTIVES AND VIDEOS



INTERACTIVES

VIDEOS



National Citizen & Community Science Library Network



Helping libraries across the country gain the **confidence**, **skills**, and **knowledge** to engage their communities in citizen science.

SciStarter.org/library-network



What is citizen science?

A global movement that enables people from all walks of life to participate in **real scientific research** by making and sharing observations with scientists.

It's how people can make an impact on issues they care about!

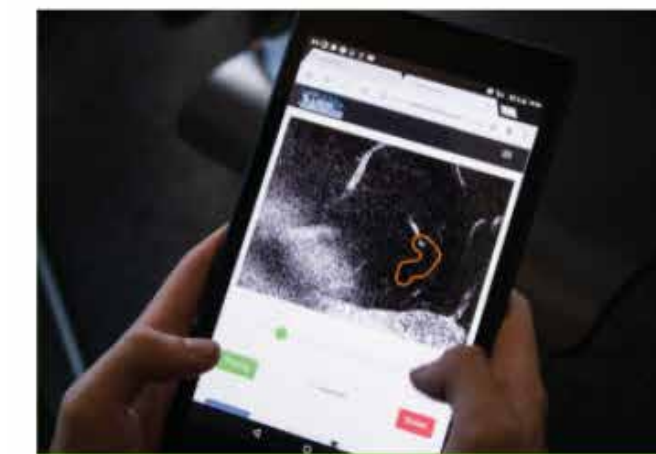


Because of citizen scientists we now know...



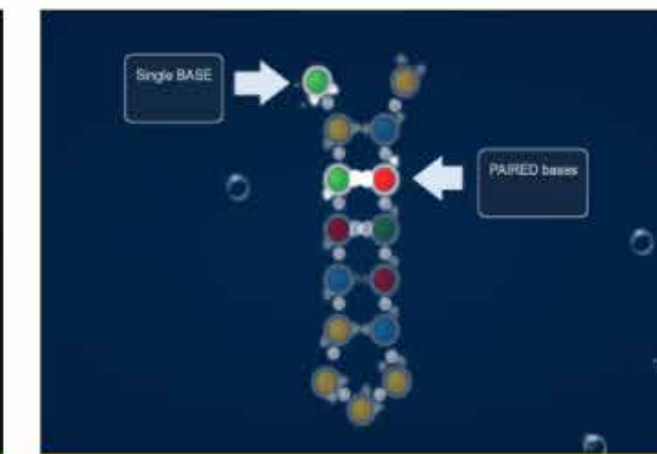
- Bird populations have declined by 50%
- Birds are breeding earlier
- 50+ types of bacteria live in your belly button
- The first flowering of 19 species of plants has moved 9 days earlier over the past decade
- There's a new type of aurora in the night sky (and the citizen scientists named it Steve!)
- In one weekend in 2019, citizen scientists accomplished 2,566 research hours, or 3.5 months of lab-equivalent research time, for an Alzheimer's research project.

Create an account SciStarter.org to find a citizen science project that you're interested in today.



STALL CATCHERS

Accelerate Alzheimer's research by playing an online game.



ETERNA

Design and study complex RNA molecules to help scientists develop RNA-based medicines to combat global diseases.



NEUREKA

Play games and answer questions to improve mental health and dementia research.



GLOBE AT NIGHT

Help gather light pollution data.



FLU NEAR YOU

Spread the word. Not the flu.

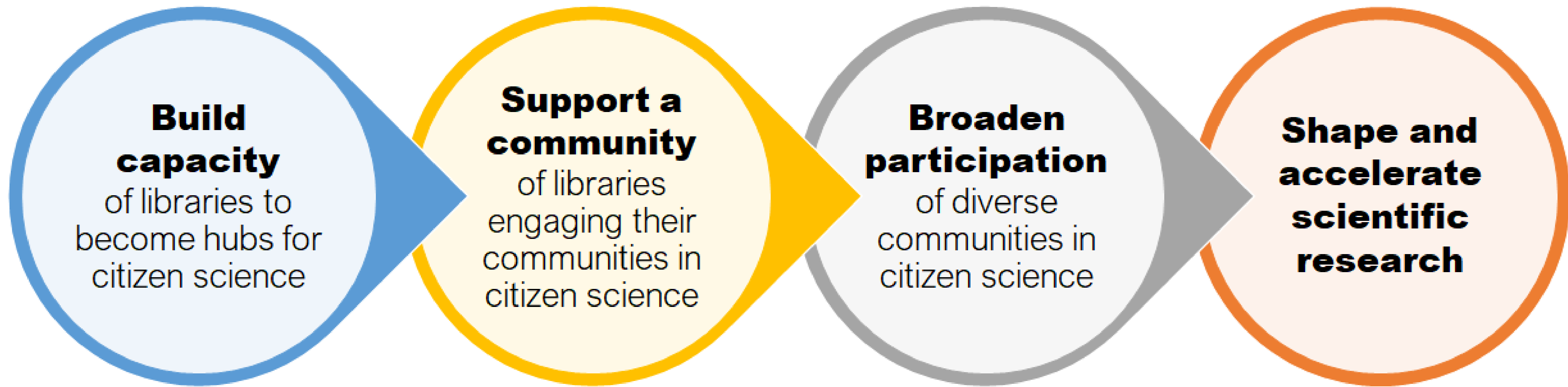


ISEECHANGE

Document change in weather and climate in your community.

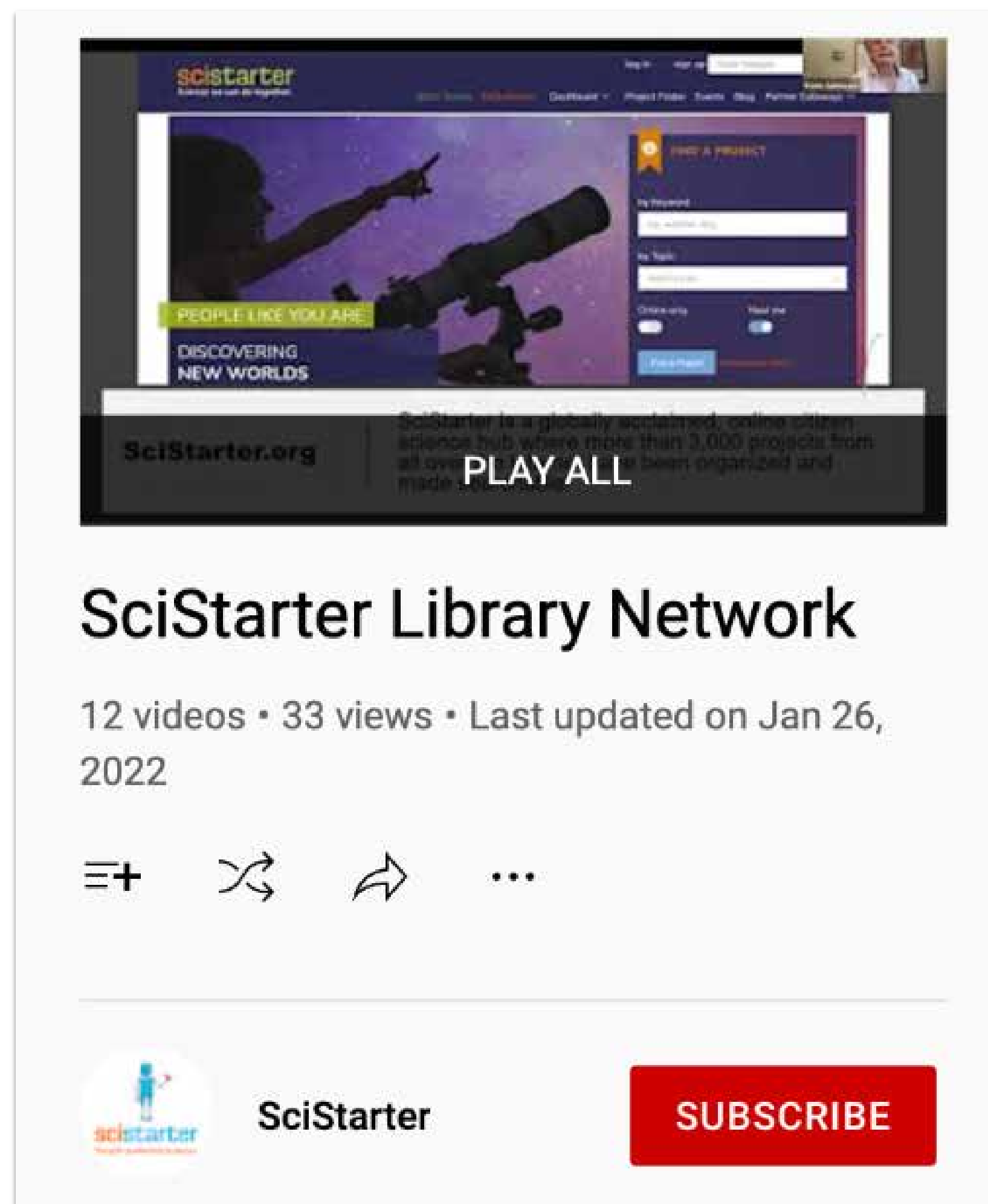


Library Network Goals



SciStarter.org/library-network

Network Webinars



Watch previous webinars on YouTube, including:

- Introduction to Citizen Science
- How to Host a Citizen Science Event
- Deeper Dive into Citizen Science Kits

www.youtube.com/scistarter

Citizen Science Kits



BUILD YOUR OWN!

EXPLORING BIODIVERSITY

Document and identify plants and animals around you. Great for all locations and ages.



BUILD YOUR OWN!

OBSERVING POLLINATORS

Identify and count pollinators. Good for all ages. Usable anywhere plants are flowering.

Soup to nuts guides for building these kits can be found at SciStarter.org/library-build-a-kit

More ideas to participate in Citizen Science



Library centered citizen science project



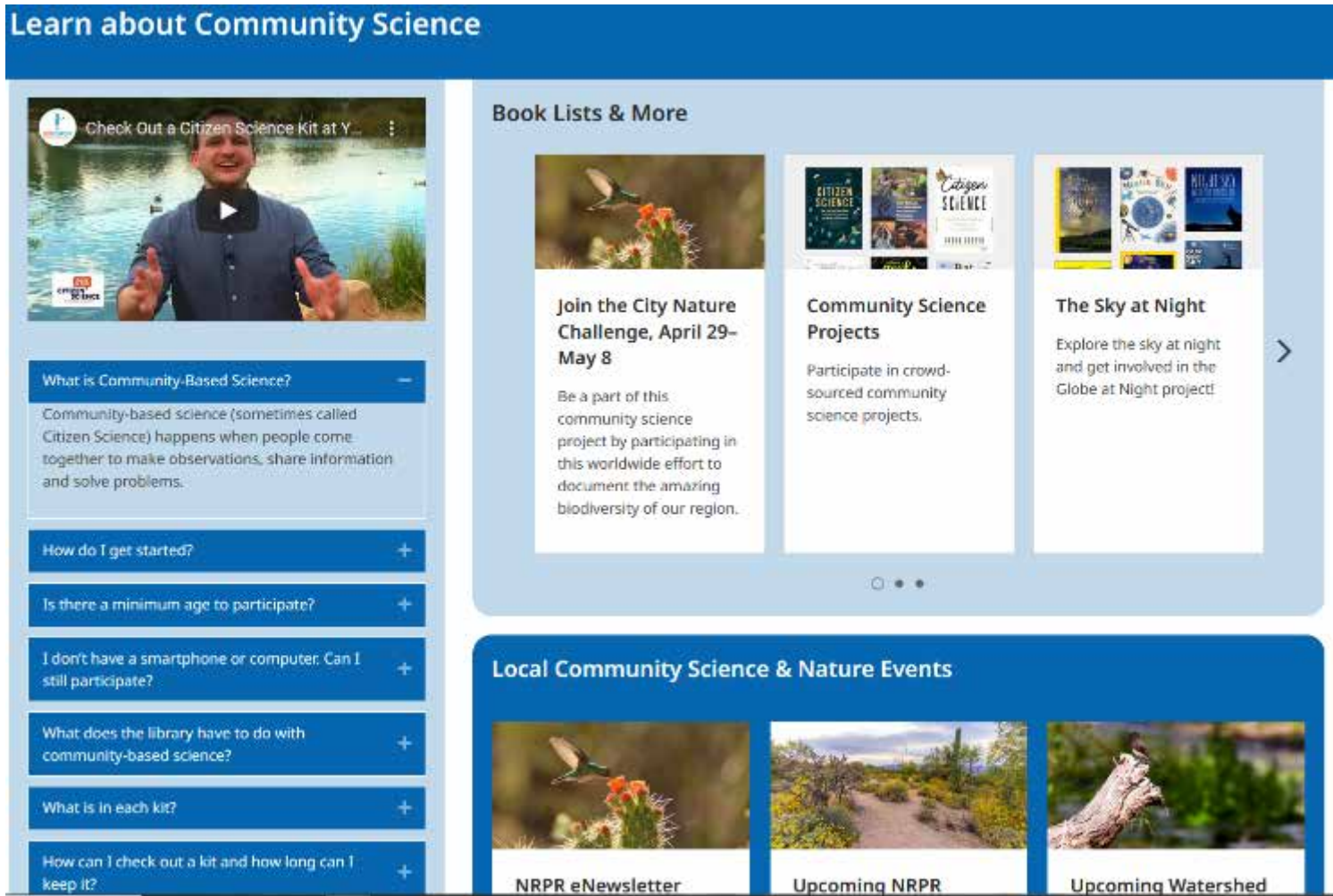
Book discussions



Astronomy Program



Programs and events
Bioblitz



Library web pages

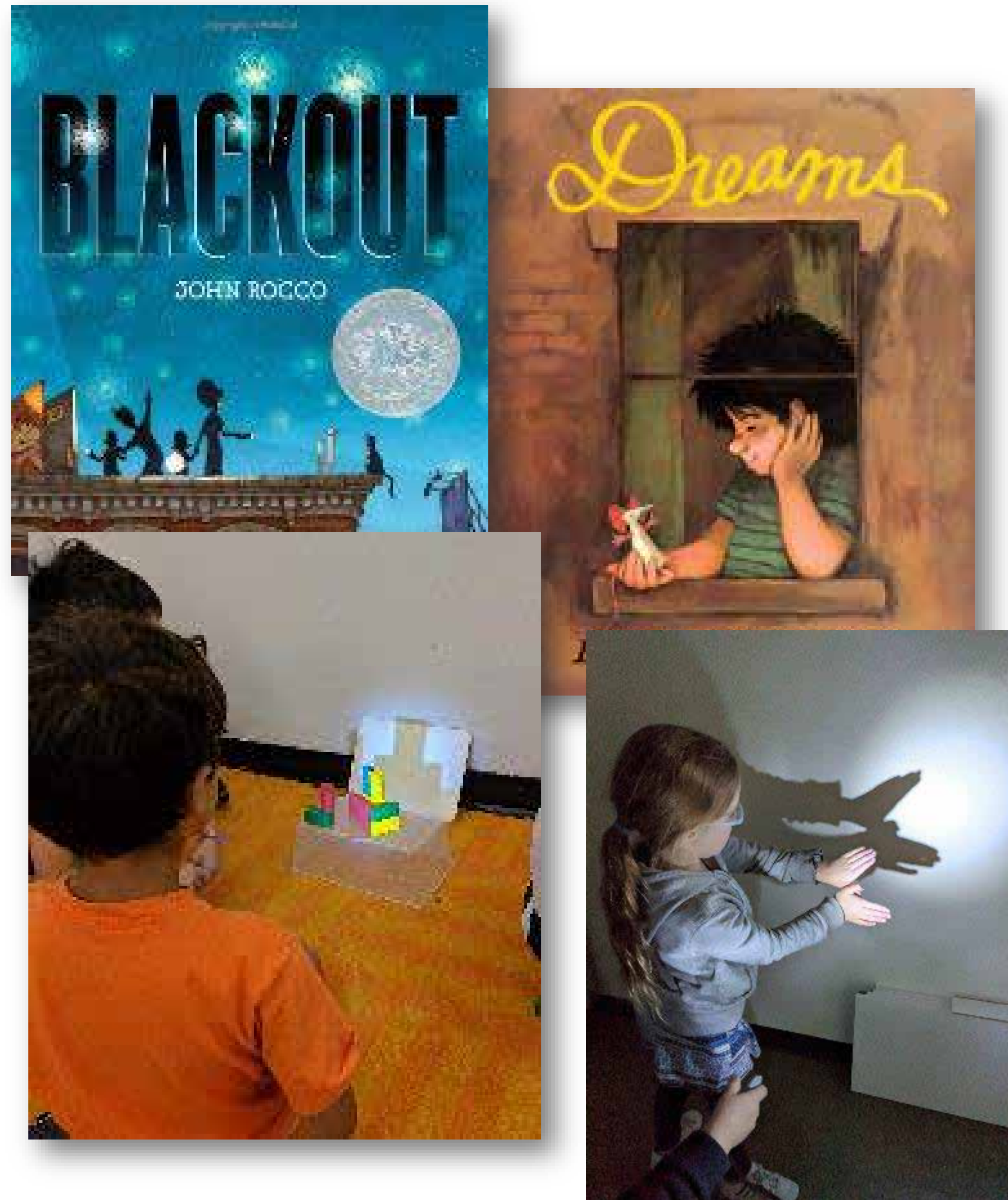


Join Today!

SciStarter.org/library-network

Email: librarynetwork@scistarter.org

Leap into Science



- § Series of workshops that integrate **open-ended science** activities with **children's books**
- § For **ages 3-10** and families
- § **Accessible** science topics and materials
- § Designed for **community-based settings** like museums, libraries, out-of-school time programs

Why Science & Literacy



Children's books



Hands-on science

Type in the chat – what **skills** are children practicing when learning through reading and science explorations?

Curriculum

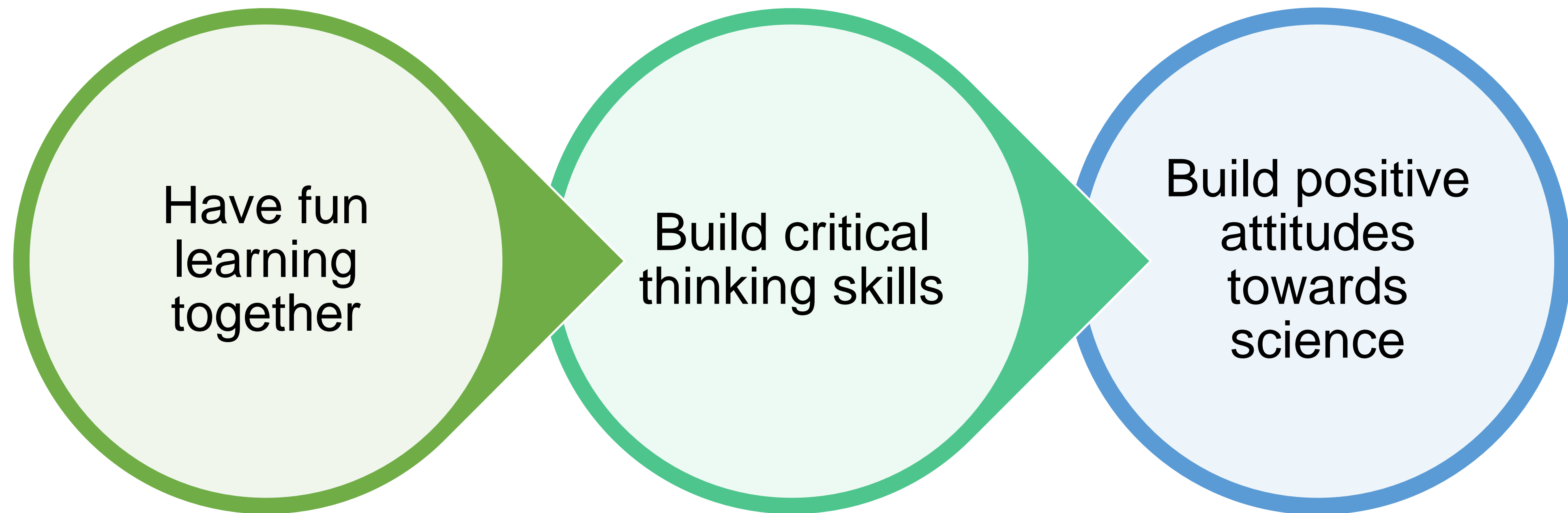


*Balance, Wind & Light and Shadow Workshops for
PreK, Elementary and Family Workshops*

Core Four Strategies for Maximizing Learning



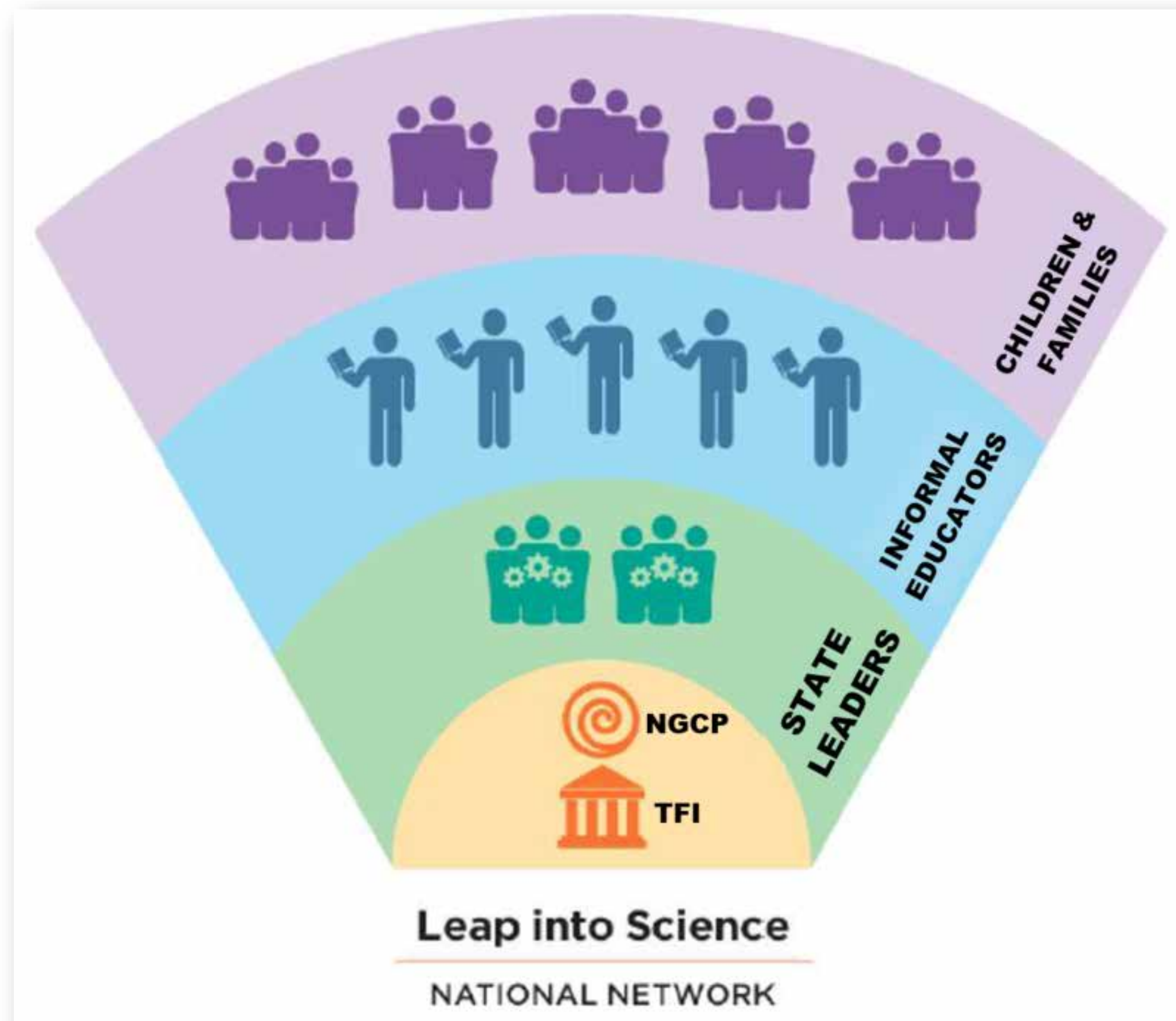
Goals for Children and Caregivers



Not content mastery



Leap into Science National Network



- § A national network of informal educators who engage underserved urban & rural communities in science & literacy
- § State-level interdisciplinary partnerships between museums, libraries, and OST organizations
- § Aiming for a sustainable train-the-trainer model

Network Highlights

1,682 educators have been trained in the Leap into Science curriculum and facilitation strategies.

1606 Leap into Science workshops have been reported.

Over 30,000 children and families have attended workshops, although we estimate these numbers to be much larger.



Photo by New Mexico Museum of Natural History and Science



Photo by Charter Township of Shelby

Get involved!



Cohort 1

Arizona

New Jersey

Oregon

Tennessee

Washington

West Virginia

Cohort 2

Indiana

Kansas/Missouri

Pennsylvania

Utah

Wyoming

Cohort 3

Arkansas

Louisiana

North Carolina

Ohio

Cohort 4

Alaska

Michigan

Montana

New Mexico

Q & A

We'll take questions from the chat and from people using the 'hand raise' function.

Upcoming NGCP Events

Webinar Series: Addressing STEM Stereotypes

Addressing STEM Stereotypes with Young Children

June 1, 2022 at 11:00 AM Pacific / 2:00 PM Eastern

Addressing STEM Stereotypes with Youth and Young Adults

June 7, 2022 at 11:00 AM Pacific / 2:00 PM Eastern





20 YEARS OF TRANSFORMING STEM

Learn more at ngcproject.org

