

The Girl Panel *Perspectives on STEM*



NATIONAL GIRLS COLLABORATIVE PROJECT

NGCP Updates

National Network

- Three new Collaborative Leads: LA, NY, TN

- Girls Advisory Board

Partnerships

- Diversifying partnership conversations
- Standardized rubric

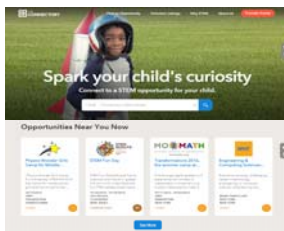
National Champions Board

- New representatives from:
 - CSTA
 - IEEE
 - AWIS
 - NAPE
 - Afterschool Alliance



NATIONAL GIRLS COLLABORATIVE PROJECT

NGCP Updates



The Connectory

- Australia's STARportal
- State Exchanges
- CS for All Commitment with AccessComputing

NATIONAL GIRLS COLLABORATIVE PROJECT

NGCP Network Projects



NATIONAL GIRLS COLLABORATIVE PROJECT



Training for educators and professionals working in local youth-serving STEM programs



NATIONAL GIRLS COLLABORATIVE PROJECT

Leap
into
science
Engineered by
THE FRANKLIN INSTITUTE

A National Network for Informal Science and Literacy

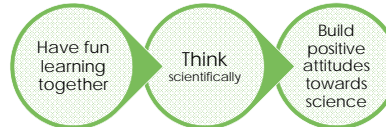
Julia Skolnik, MEd
The Franklin Institute



What is Leap into Science?



Goals for Children and Caregivers



- Not content mastery
- Caregivers are both learners and facilitators



How did we get here?

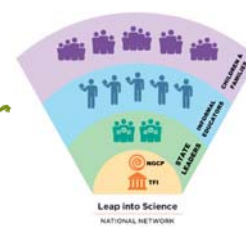


2007-2011: Philadelphia
Developed and piloted science and literacy resources with The Free Library of Philadelphia and early literacy partners

2011-2017: Pilot Cities
Added new resources, and piloted with museum, library, and OST partners in 12 cities



Scaling Nationally through State Systems



- Empower **state leader teams** of museums, libraries, and out-of-school time organizations
- Train educators who serve **rural and urban communities**
- Aim to reach over 500,000 people across **15 states** by 2021

Goals for State Leaders and Educators



Knowledge Skills



For State Leaders:
To effectively **train and support educators** to lead science and literacy programs

Confidence Collaboration

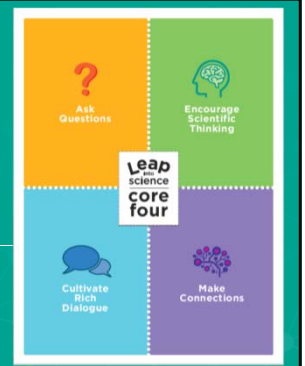


For Educators:
To lead engaging science and literacy programs for children and families

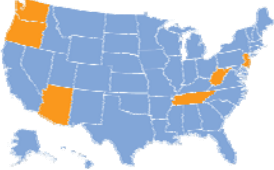
Core Four Strategies

For Building Science and Literacy Skills

Watch the video at leap.fi.edu



Building a National Network



2017-2018

- 25 states applied
- Six states were selected
- Led 15 trainings for 200 educators
- Led 7 workshops for 150 children and families

2019-2021

- Two new cohorts (9 states total)
- Annual National Leap into Science Week (last week of Feb)

**ARIZONA
NEW JERSEY
OREGON**

**TENNESSEE
WASHINGTON
WEST VIRGINIA**

Leap into science
— Engineered by —
THE FRANKLIN INSTITUTE

Learn more at leap.fi.edu

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SciGirls

Sarah Carter
Manager, STEM Media & Education
Twin Cities Public Television

PBS KIDS

SciGirls

tpt

The Big Idea

Media and education that change how girls see STEM and how the world sees girls.

SciGirls

tpt

Our Approach

- On TV
 - national PBS Kids series
- Online
 - safe, social networking site
- On the Ground
 - Activities and professional development

SciGirls

tpt

History

Began as an outreach program of DragonflyTV

A summative evaluation found that girls gained:

- confidence
- a deeper understanding of inquiry
- a broadened awareness and interest in science careers

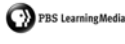
dragonflytv

SciGirls

tpt

On TV

- Check your local PBS listings OR watch full episodes online
 - Features *real* girls doing STEM investigations they're passionate about
 - Highlights the science and engineering processes
 - Features *real* female STEM professionals



On TV

New episodes available now!



Online

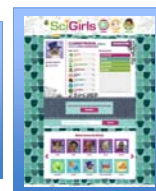
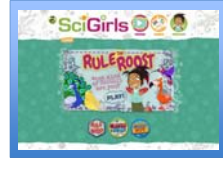
pbskids.org/scigirls



Mobile friendly website for kids!



Online



SciGirls Outreach

SciGirls CONNECT was a national outreach effort funded by NSF for five years, through 2016, to encourage educators, both formal and informal to adopt new, research-based strategies to engage girls in STEM.



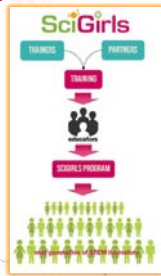
SciGirls CONNECT Goals

- To foster a greater interest in science and engineering among girls ages 8-13, making a dedicated effort to reach girls of color;
- To provide informal STEM educators with training, video resources and complementary print materials modeling authentic explorations that all girls can do; and
- To increase both the quantity and quality of girls' STEM encouragement programs nationwide, through partnerships with diverse girl-serving organizations.



SciGirls CONNECT Model

- Girl-serving organizations nationwide apply to become a *SciGirls* Partner Organization.
- *SciGirls* staff, or a Certified *SciGirls* Trainer provide the new Partner a face-to-face training in gender equitable teaching strategies at their program site.
- Trained staff and educators develop *SciGirls* programs. Programs have access to *SciGirls* resources (research, videos, activity guides, webinars, and ongoing program support).
- Trained educators then apply to the *SciGirls* Train-the-Trainer program to become certified to empower other educators with gender equitable strategies.



On the Ground SciGirls Seven Strategies

- ★ Rationale/Research
- ★ *SciGirls Seven*: Strategies to engage girls in STEM
- ★ Tips for using the *SciGirls Seven*
- ★ Applying the *SciGirls Seven*
- ★ References and Readings



Finding Role Models FabFems Website

FabFems is an international, online, searchable directory of women STEM professionals interested in outreach to girls

- Audience:**
- Role Models
 - Girl-Serving Programs
 - Parents and Girls

www.fabfems.org



Educator resources on scigirlsconnect.org

Download videos, activities, and other resources to enhance your program!

What are we doing now?

- *SciGirls* CONNECT 2
- *SciGirls* Season Five: Code *SciGirls*!
- *SciGirls* Strategies
- BrainEdu, A Window into the Brain/Una Ventana al Cerebro



Looking for more?

For Kids: pbskids.org/scigirls

For Parents: pbs.org/parents/scigirls

For Educators: scigirlsconnect.org

[scigirlstv](https://www.facebook.com/scigirlstv)

@SciGirls

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