

A bold, interdisciplinary program built especially for girls ages 13-16

Educator Guide





Overview

Brite is a bold, interdisciplinary program built especially for girls ages 13-16 beginning on July 13th, 2020. A combination of COVID-19, the summer slide, and lack of equity across the science field for females create an urgent need to fill the vacuum of programs, which cannot be held in person this year. In a first-of-its-kind collaboration, the <u>World Science Foundation</u> (WSF), <u>National Girls Collaborative Project</u> (NGCP), and <u>The Hello Studios</u> are joining forces to bring a high-quality STEM-centered program.

Brite consists of three new courses that explore unique topics, such as the intersection of art and science, the strategies of women working with dangerous creatures, and the challenges of conducting experiments on the human brain. Each week features keynote speakers from cutting-edge fields with careers as diverse as working at YouTube, the National Forestry Service, and our nation's top universities.

Individual and collaborative activities anchor the program with a 1:1 device structure that allows for immersion in **Brite**, its platform and learning tools. The courses are augmented with behind-the-scenes tours of museums, parks, labs, and studios. Each week culminates with "**Brite**fest" hosted by the girls themselves, sharing the projects they have been working on all week. Participants and programs will receive certificates and digital badges upon completion











Welcome

Dear Educators,

Welcome to Brite! Thank you for joining us on this journey.

The purpose of this guide is to provide YOU, as Educators with a roadmap to navigate girls in your Program Group through three weeks of Brite programing. This guide will be your map for each day, providing you with logistical and programmatic instructions on each activity.

In the spaces between school closures, summer learning loss, and online experiences, Brite is here to fill the gaps for middle and high school girls that result in a vacuum for women in science. **Brite** is a bold, interdisciplinary program built especially for girls ages 13-16, consisting of three new courses that explore unique topics, such as the intersection of art and science, the strategies of women working in dangerous situations, and the challenges and possibilities of conducting experiments on the human brain. Each week features keynote speakers from cutting-edge fields, an opportunity for girls to learn from and interact with STE(A)M professionals.

As you guide girls through three weeks of Brite Programming let our central program goals be your compass:

Foster girls' STEM identity: belief in self, image, and ability. Girls will gain a more robust belief in themselves and their abilities. Girls will be equipped with a greater sense of confidence.

Foster girls' STEM agency: a foundation for decision making about STEM. Girls will discover new ways of thinking, untraditional career paths, and unique job opportunities to assist in decision making about STEM in the future.

Engage in collaborative learning and sharing, for relationship building with a community of girl learners. Girls will learn together and with STE(A)M professionals, building a unique, interdisciplinary space to spark curiosity and creativity.

Drawing on these central goals, we encourage you to use this guide as a blueprint to build upon. We encourage you to add your own insights and experience to each day, and we encourage you to tailor and modify activities to fit the curiosity and creativity of your group. We look forward to learning, sharing, and growing together. We hope these weeks add some Briteness to your summer!



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Monday: Week 1

This Educator Guide has programming from 12:00-3:00 PM Eastern, but you can adjust the time as needed.

Make sure all girls in your program are online for the daily live Brite Assembly Zoom calls at 1:00 PM Eastern.

Be sure to have girls go through the Getting Started module in the Brite Platform before starting Week 1 content.

11:30-12:00 Registration and get logged in. Use your Program specific Zoom link to get online and support all girls in your program as they log into the Brite platform.

Exercise Question Note: There is a short series of Brite Exercise questions. Girls can complete these any time during the day.



💶 In your Program Group Zoom

12:00-12:05 Welcome and What is Brite?

Share your screen to watch a prerecorded video explaining what Brite is and what makes Brite unique.

Note: If any girls missed the introduction video, they can watch the video from the link in the platform once they have closed Zoom.

12:05-12:30 Introductions and Icebreaker:

Building Brite Norms: consider leading girls in formulating norms and expectations for their Brite participation OR introduce and talk through these digital citizenship norms created by Common Sense Media and Edmodo. Although these focus on digital citizenship they can be used more broadly as expectations:

- Communicate responsibly and kindly with one another
- Protect our own and others' private information online
- Stand up to cyberbullying
- Respect each other's ideas and opinions
- Give proper credit when we use others' work

Note: Download a poster of these norms to share with your group here.

- In addition, give girls permission and encourage them to be their whole, authentic self: feel free to speak up, make comments and videos that represent who you are, your experiences, and your opinions.
- Give girls time to talk through what these norms and expectations mean to them and to share real examples.
- Introduce girls to the Three Word Wonder Icebreaker each girl will pick three words to describe themselves (e.g. creative, timely, talkative).
- Screen share Theme Reveal video for Brite Week 1.



- Let girls know that they will need to log back into Zoom at 1:00 PM for a special performance by Dajae "Moe" Williams who combines her love of art and science.
- As preparation, they will listen to a 12-minute podcast interviewing Dajae "Moe" Williams and use Brite Girls Gallery to record their Three Word Wonder in a creative way.

Log Out of Zoom

12:30-12:45 Brite Girls Gallery - Flipgrid

- Girls will follow the Brite Platform to listen to Dajae "Moe" Williams' podcast.
- Then, using Flipgrid, girls will communicate their Three Word Wonder creatively through song, rap, drawing, poem, or something else of their choosing. Girls can respond to each other's recordings.

Note: This is a chance for girls to explore the collaborative aspect of the Brite Platform.

12:45-1:00 Suggested time for a short break, make sure all girls are back by 1:00 PM Eastern to participate in the Brite Performance.

In the Brite Performance Zoom Webinar

1:00-1:30 Brite Assembly video call with our performer - Dajae "Moe" Williams

• In Zoom: All programs from across the country will be logged in to attend this call.

Scientist performer gives a performance and shares a bit about how she views the intersection of art and science.

In your Program Group Zoom

1:30-1:45 Introduce the Activity: Find art that utilizes science.

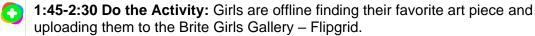
- Screen share Host introduction video: Amanda P. She will join them on Friday to learn about what they have done and share her expertise.
- Introduce the activity: Girls will scour the internet, their homes, or other places
 to find a piece of artwork they love that utilizes science. Be prepared to model
 this with a favorite art piece of your own. Examples include: Davinci & Divine
 Proportion, Photography + Conservation, paintings of microbial blooms, a
 human and robot duet.
- Girls will record a Flipgrid in the Brite Girls Gallery to share the art piece they selected and explain how that artwork uses science.
- Tell girls that they will need to log back into Zoom at 2:15 PM Eastern.

Note: Girls can record themselves and hold up the artwork, record their screen showing the artwork, or record the art piece itself. As needed, share this *Flipgrid* support tip for recording a screen share.

Log Out of Zoom







In your Program Group Zoom

2:30-3:00 Daily Wrap Up

- In Zoom: Explore with girls the teaser for next day's speaker.
- Tell girls that tomorrow they will meet Jenny Adler so we will spend time thinking of questions to ask her.
- Use the screen share to show Jennifer "Jenny" Adler's photography gallery: https://www.jenniferadlerphotography.com/collection.
- Brainstorm a list of questions to ask speakers. Role play several questions to help girls understand potential answers. For example, encourage girls to ask questions that provide information about educational pathways, personal interests, such as pets or hobbies, as well as advice they might provide the girls. Avoid Yes or No questions that provide minimal information.
- Let them know that when the Zoom call ends, they will write their questions in the next step on the Brite platform.
- Record initial questions in the Discussion Board.
- Introduce Brite@Home: these are activities girls will do beyond the structured programming. Encourage girls to take on Dajae's challenge: Girls will sing along or dance to one of Dajae's songs to be incorporated in her next music video. To participate girls should add it to the Brite Girls Gallery Flipgrid by the end of the week.
- Introduce Additional Resources: These are optional resources girls can explore to learn more about the weekly theme.

Log out of Zoom

 Girls use the Discussion Board to record questions for Jennifer Adler, engage with Brite@Home, and explore the Additional Resources

Tuesday: Week 1

11:30-12:00 Get logged in. Use your Program specific Zoom link to get online and support all girls in your program as they log into the Brite platform.

Note: As girls log into the Brite Platform they can click into the Daily Check in and respond to the Discussion "hook question": What do you think the art of the future will involve?

In your Program Group Zoom

12:00-12:30 Icebreaker

- Engage girls in the Collaborative Art Icebreaker. Use the Zoom Whiteboard feature to allow girls to draw and stamp onto the screen together.
- Take a screen shot of the finished artwork and add it to the Brite Girls Gallery.



- Let girls know that after this call they will be able to comment on their artwork and the artwork other groups created.
 Screen share the Daily Check In page from the Brite Platform
 Engage girls in a discussion of the hook question: What do you think the art of the future will involve?
 - Encourage girls to add onto each other's thinking by providing a sentence stem: I agree and . Also, I think
 - Encourage girls to elaborate on their ideas by asking them follow up questions and encouraging others to ask follow up questions.
- Remind girls that next up is the Brite Assembly with scientist Jennifer Adler. It will begin at 1:00 PM Eastern.
- Log Out of Zoom

12:30-12:45 Brite Girls Gallery

Girls will follow the Brite Platform to access the Brite Girls Gallery and comment on something they like about the artwork from their group and other groups.

12:45-1:00 Suggested time for a short break, but make sure all girls are back and ready to log into the Brite Assembly for the live speaker at 1:00 PM Eastern!

In the Brite Assembly Zoom Webinar

1:00-2:00 Brite Assembly video call with our Scientist speaker – Jenny Adler

- In Zoom: All programs from across the country will be logged in to attend this
 call
- Scientist Speaker shares about her experience and engages girls in a Q&A

Note: Some questions will be selected in advance for girls to ask live during the Brite Assembly. There will also be opportunities for more questions throughout.

In your Program Group Zoom

2:00-2:15 Introduce the Activity: Create a photo essay

- Explain the activity: As inspired by Jennifer Adler, girls will choose a science topic they care about and are challenged to communicate that topic through a photo essay. They will take 5 photos that explain their topic and upload them to the Brite Girls Gallery
- Once their photos are uploaded to the Brite Girls Gallery, girls can comment and "like" other photo essays
- Log Out of Zoom

2:15-3:00 Do the Activity – girls are offline creating their photo essays & uploading them to the Brite Girls Gallery

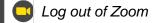
In your Program Zoom

3:00-3:30 Daily Wrap Up





- Have each girl share a highlight from creating their photo essays. Let them know that they will have time to look at and comment on each other's work
- Show girls the teaser for next day's speaker
 - Use the screen share to show Yamilée Toussaint Beach's website.
 - Remind girls about developing great questions for speakers. Provide one of the most successful questions from earlier and instruct them that when the Zoom call ends, they will write their questions in the next step.
 - As a group, generate a few questions for Yamilée to get girls started.
 You should type these into the Discussion board.
 - Reminder of Brite@Home: these are activities girls will do beyond the structured programming
 - Reminder of Additional Resources: these are optional resources girls can explore these resources to learn more about the weekly theme



 Girls use the Discussion Board to record questions for Yamilée, engage with Brite@Home, and explore the Additional Resources

Wednesday: Week 1

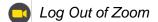
11:30-12:00 Get logged in. Use your Program specific Zoom link to get online and support all girls in your program as they log into the Brite platform.

Note: As girls log into the Brite Platform they can click into the Daily Check in and respond to the Discussion "hook question": How can movement/dance and technology communicate ideas, opinions, and stories?

In your Program Group Zoom

12:00-12:30 Icebreaker

- Engage girls in icebreaker discussion: Share the name of an artist, musician, or dancer you love. Later, you will add this to your Brite Girls Gallery – Flipgrid.
- Screen share the Daily Check In page from the Brite Platform
 - Engage girls in a discussion of the hook question: How can movement/dance and technology communicate ideas, opinions, and stories?
 - Encourage girls to add onto each other's thinking by providing a sentence stem: I agree and _____. Also, I think _____
 - Encourage girls to elaborate on their ideas by asking them follow up questions and encouraging others to ask follow-up questions.3
- Remind girls that next up is the Brite Assembly with Yamilée Toussaint Beach will begin at 1pm ET. As needed revisit and key questions girls' want to ask.





12:30-12:45 Brite Girls Gallery - Flipgrid

Girls will follow the Brite Platform to access the Brite Girls Gallery and record a Flipgrid explaining their favorite artist, musician, or dancer and why they love them. They can also comment on each other's videos.

12:45-1:00 Suggested time for a short break, but make sure all girls are back and ready to log into the Brite Assembly for the live speaker at 1:00 PM!

In the Brite Assembly Zoom Webinar

1:00-2:00 Brite Assembly video call with our Scientist speaker – Yamilée Toussaint Beach

- In Zoom: All programs from across the country will be logged in to attend this
 call
- Scientist Speaker shares about her experience and engages girls in a Q&A

Note: Some questions will be selected in advance for girls to ask live during the Brite Assembly. There will also be opportunities for more questions throughout.

n your Program Group Zoom

2:00-2:15 Introduce the Activity: Girls will choose between two independent activities.

OPTION 1

Explain the activity: Girls will independently choreograph a dance that utilizes a
type of technology (lights, sounds, video, instruments, etc.) and record their
performances. Girls should upload their recorded performance to Brite Girls Gallery
using Flipgrid.

Note: Here's a tip on how to upload a prerecorded video into Flipgrid.

OPTION 2

 Explain the activity: Girls will independently follow the Code.org Dance Party tutorial. Girls should upload a screenshot, link, or video of their work to the Brite Girls Gallery using Flipgrid.

Log Out of Zoom

2:15-3:00 Do the Activity: Girls are offline creating their dance and uploading them. Then, girls can comment on the dances other girls created.

In your Program Zoom

3:00-3:30 Daily Wrap Up

- Have each girl share a highlight from their original choreography (OPTION 1) / the dance party they programmed (OPTION 2). Let them know that they will have time to look at and comment on each other's work.
- Show girls the teaser for next day's speaker Beata Mierzwa.
 - Screen share Beata's website: https://beatascienceart.com.





- Remind girls about developing great questions for speakers. Provide one of the most successful questions from earlier and instruct them that when the Zoom call ends, they will write their questions in the next step.
- As a group, generate a few questions for Beata to get girls started. You should type these into the Discussion board.
- Reminder of Brite@Home: these are activities girls will do beyond the structured programming. Remind girls of Dajae's music video challenge and that they should add their video singing or dancing to one of her songs by the end of the week.
- Reminder of Additional Resources: these are optional resources girls can explore these resources to learn more about the weekly theme.

Log out of Zoom

 Girls use the Discussion Board to record questions for Beata, engage with Brite@Home, and explore the Additional Resources

Thursday: Week 1

11:30-12:00 Get logged in. Use your Program specific Zoom link to get online and support all girls in your program as they log into the Brite platform.

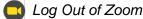
Note: As girls log into the Brite Platform they can click into the Daily Check in and respond to the Discussion "hook question": How will the creation of entertainment and fashion evolve and change?

In your Program Group Zoom

12:00-12:30 lcebreaker:

- Engage girls in collaborative music making icebreaker use Zoom screenshare to type the code for the collaborative song.
 - o Code: A=clap, B=snap, C=rub hands together, D=sing "la"
 - Use your phone or another device to record what girls produce and play it back for them.
 - Let girls know that after this call they will be able to comment on their artwork and the artwork other groups created.
- Screen share the Daily Check In page from the Brite Platform.
 - Engage girls in a discussion of the hook question: How will the creation of entertainment and fashion evolve and change?
 - Encourage girls to add onto each other's thinking by providing a sentence stem: I agree and _____. Also, I think _____
 - Encourage girls to elaborate on their ideas by asking them follow up questions and encouraging others to ask follow up questions.
- Remind girls that next up is the Brite Assembly with scientist Beata Mierzwa will begin at 1:00 PM Eastern. As needed revisit and key questions girls' want to ask.





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12:30-12:45 Brite Girls Gallery - Flipgrid

- Take a moment to upload the song girls collaborated on to the Brite Girls Gallery
- Girls will follow the Brite Platform to access the Brite Girls Gallery and leave comments about the collaborative song they created.

12:45-1:00 Suggested time for a short break, but make sure all girls are back and ready to log into the Brite Assembly for the live speaker at 1:00 PM Eastern!

In the Brite Assembly Zoom Webinar

1:00-2:00 Brite Assembly video call with our Scientist speaker - Beata Mierzwa

- In Zoom: All programs from across the country will be logged in to attend this call
- Scientist Speaker shares about her experience and engages girls in a Q&A

Note: Some questions will be selected in advance for girls to ask live during the Brite Assembly. There will also be opportunities for more questions throughout.



2:00-2:15 Introduce the Activity: Compose a piece of music.

OPTION 1

- Explain the activity: Using Chrome music lab, girls will create a song in Song Maker.
- Once their songs are complete, they should use Flipgrid to add them to the Brite Girls Gallery.

OPTION 2

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- Explain the activity: Using sketchpad, girls will create science-inspired clothing item.
 Give girls some examples: a skirt designed to move like the ocean to communicate the importance of rising sea temperatures; a jacket with the pattern of microscopic images; your dream scientist outfit, etc.
- Once their clothing items are complete, they should use Flipgrid to share them in the Brite Girls Gallery.
- Log Out of Zoom

2:15-3:00

OPTION 1

• Do the Activity: Girls are using Song Maker to compose a piece of music.

OPTION 2

• Do the Activity: Girls are using sketchpad to create science-inspired clothing item.

• Upload your creation to the Brite Girls Gallery – Flipgrid.

Upload your creation to the Brite Girls Gallery – Flipgrid.







In your Program Zoom

3:00-3:30 Daily Wrap Up

- Have each girl share a highlight from their music making or fashion design. Let them know that they will have time to look at and comment on each other's work.
- Show girls the teaser for next day's speaker, Amanda Phingbodhipakkiya. who they first saw on Monday!
 - Use the screen share to show Amanda P.'s website.
 - As a group, generate a few questions for Amanda P. to get girls started.
 You should type these into the Discussion board.
 - Let girls know that tomorrow they will get a chance to showcase a song, dance, or art piece from the week. As a group, decide on what you want to showcase (you will have about one minute).

Note: You might highlight one awesome piece to represent your whole group or you may choose to take snippets of a bunch of things and splice them together into a video, gallery page, or slideshow. It is up to you and your girls what you are comfortable and capable of sharing!

- Reminder of Brite@Home: These are activities girls will do beyond the structured programming.
- Reminder of Additional Resources: These are optional resources girls can explore these resources to learn more about the weekly theme.



Log out of Zoom

• Girls use the Discussion Board to record questions for Amanda P. engage with Brite@Home, and explore the Additional Resources.

Friday: Week 1

11:30-12:00 Get logged in. Use your Program specific Zoom link to get online and support all girls in your program as they log into the Brite platform.



In your Program Group Zoom

12:00-12:45 Prep for BriteFest:

- Engage girls in a debrief of the week. Have them talk about the following:
 - Review the three previous speakers: Jenny Adler, Yamilée Toussaint Beach, and Baeta Mierzwa.
 - How do each of these women use art and science in their work or daily life?
 - Review what we know about Amanda P. and the questions generated vesterday.
 - What are the top two questions our group wants to ask Amanda P. during BriteFest?



12:45-1:00 Suggested time for a short break, but make sure all girls are back and ready to log into the Brite Assembly for the live speaker at 1:00 PM Eastern!

In the BriteFest Zoom Webinar

1:00-2:30 BriteFest video call with our Scientist speaker - Amanda P.

- In Zoom: All programs from across the country will be logged in to attend this call
- Amanda P. joins the call and shares more about her career, and why art and science are important to her
- Showcase of all group's art, music, and dance compositions
- Amanda P. shares about her experience and engages girls in a Q&A

Note: Some questions will be selected in advance for girls to ask live during the BriteFest. There will also be opportunities for more questions throughout.

Exercise Questions Note: There is a short series of Brite Exercise questions. Girls can complete these any time after BriteFest and it is a prerequisite for getting the course certificate.

Log Out of Zoom

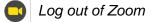
2:30-2:45 Reflect on BriteFest and the week:

- Girls take a break and during the 15 minutes respond to the following reflection questions:
 - What was your favorite part of BriteFest?
 - What is something new you learned from Amanda P.
 - o How do art and science intersect in your life?

🗖 In your Program Zoom

2:45-3:30 Weekly Wrap Up

- Have each girl share a highlight from BriteFest and from the week.
- Explain that girls will see their Brite certificates for art x science appear in their profile upon completion of all Week 1 platform components
- Reminder of Brite@Home: these are activities girls will do beyond the structured programming. Remind girls of Dajae's music video challenge and to add their video singing or dancing to one of her songs by the end of the day.
- Reminder of Additional Resources: these are optional resources girls can explore these resources to learn more about the weekly theme and Amanda P.
- Get ready for next week with Danger! What risks would you take for the sake of science?!







Speaker Index

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Evaluation

Brite Evaluation Getting Started Guide

Brite Evaluation Week 1

