



2023

# EDUCATOR GUIDE

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

Girls log in to the Brite Platform. Educators assist girls with any technical challenges.

### **Briten Up: Word Association** (15 mins)

- **Word Association:** The Educator will say a word and the girls will write down the first word that pops into their mind. Repeat until the full list of words (below) is complete.
  - + Engineer
  - + Design
  - + Science
  - + Build
  - + Create
  - + Art
  - + Discover
  - + Collaborate
- **Discuss:** Ask the girls to share some of their word associations. Prompt discussion by asking open-ended questions like, “Did any of your associations surprise you?”

### **Break / Platform Time** (15 mins)

- Girls may have free time to explore the Brite Platform independently and take a break as needed.

### **Brite Prep** (10 mins)

Prepare for Brite Talk and introduce today’s role model:

- **Introduction:** Xyla Foxlin is an award-winning mechatronics engineer turned YouTube creator who uses her knack for visual storytelling to share the creativity and joy of engineering with the world. She specializes in long-form content and her YouTube channel has amassed over 14 million views and 300k subscribers in two years. It features a blend of technical skill and craftsmanship—everything from proving impossible physics demonstrations to constructing a livable camper in just a few weeks, to high power rocketry and organic chemistry.

Prior to YouTube, she was the founder and executive director of the Beauty and the Bolt 501c3 nonprofit organization, whose #PrincessesWithPowerTools program has taught over 8,000 kids to use their first powertool. When she left the organization, Reinvented Magazine took over all of Beauty and the Bolt’s programming.

- **Watch:** [IF/THEN Long Profile Video of Xyla Foxlin](#)
- **Brainstorm Questions:** Brainstorm a list of questions girls have for Xyla so they are prepared to ask questions during the video call with her.

### **Brite Talk: Video Call with Role Model: Xyla Foxlin** (1 hour)

### **Brite Your Way: Create a STEM Resource for a Younger Girl** (1 hour)

- **Materials for Each Girl:** Paper and art materials (if desired)
- **Introduce the Project:** In the past week and a half of Brite, you have been exposed to a lot of different STEM professions. Today you will be creating a resource to teach younger girls about a specific STEM profession. You can choose any STEM profession you want! It can be one of the jobs

you've learned about in Brite or another STEM career you are interested in. Your resource can be any resource you choose: a poster, a picture book, a poem, a song, a video, or anything else you can think of!

**+ Educator Note:** If girls have issues remembering facts about a certain STEM profession, encourage them to use all of the information about the role models on the Brite Platform to get facts for their resource (e.g., IF/THEN videos, links to role models' websites, and role models' profiles).

- **Creation Time:** Working individually (or in social rooms) girls will create their STEM resources.
- **Gallery:** Girls should record a short video demonstrating their resource and upload it to the gallery.

### Closing Discussion (10 mins)

- Wrap up Day 3 with a closing discussion with the girls, including what they can expect tomorrow:
  - + Ask for one or two volunteers who would like to share any reflections or highlights from their experience on Day 1 (e.g., meeting Xyla, creating a STEM resource for young girls, etc.).
- Remind girls that they will be logging in the same way tomorrow. Tomorrow will be Brite Fest and they will be meeting role model Yamilée Toussaint Beach

## THURSDAY, JULY 20, 2023 .....

### Logging onto Brite Platform (10 mins)

Girls log in to the Brite Platform. Educators assist girls with any technical challenges.

### Briten Up: Group Story (10 mins)

- **Group Story:** Each girl will spend a few moments reflecting on the week. They will each type one sentence that conveys how they are feeling or their thoughts about the week. Ask the girls to read their sentences out loud one at a time to form a complete "Group Story" of the week!
- **Post:** The educator will put it all together into one "story" of the week to share on the group's program page that the girls can refer back to at any time.

### Brite Prep (20 mins)

Engage girls in a debrief of the week. Have them discuss the following:

- **Review the three previous speakers:** Erika Anderson, Gabriela A. González, and Xyla Foxlin
- **Discuss:** How have each of these women integrated engineering or STEM in general into their work and/or personal lives? What stands out or resonates with you most about their career journeys?
- **Watch:** Provide background on today's Brite Fest host Yamilée Toussaint Beach, by watching this video: [About STEM from Dance](#)
- **Questions for Yamilée:** What questions do girls have for Yamilée? Create a list of questions. Then select 2-3 questions that the group definitely wants to ask Yamilée and identify the girls who will ask each question.
- **Brite Fest Showcase Prep:** Remind girls that today's Brite Fest will be structured the same as last week's. During Brite Fest, a selection of their work from the week (videos, artwork, hands-on

projects, etc.) will be showcased. Identify a few girls to present for your group.

- **Educator Note:** There are many ways to organize girls' sharing during Brite Fest. For example, the educator can create a slideshow with five slides showcasing work for five girls that wish to share. Another approach is to have girls show physical projects on camera. For simplicity, it is best to have only the educator share their screen, but girls can unmute and speak on camera.

### **Break** (10 mins)

### **Brite Fest Hosted by Yamilée Toussaint Beach** (1.5 hours)

### **Reflection** (10 mins)

Girls post a short text or video reflection on their second week in Brite.

- **Reflections:** Girls can choose to write or record a short reflection on their week. The reflections can touch on anything the girls wish to share. Some ideas include:
  - + Reflections on their favorite part of Brite Fest
  - + Something new they learned this week
  - + A favorite project they completed this week
  - + Something they learned about that they want to continue exploring on their own

### **Platform Free Exploration** (10 mins)

Girls have time for exploring the Brite Platform.

### **Closing Discussion** (10 mins)

#### **Wrap-Up Discussion on Week 2 of Brite.**

- **Reflect on BriteFest and Week 2:** Ask girls...
  - + What was your favorite part of BriteFest?
  - + What is something new you learned this week?
- **Congratulate girls:** Congratulate girls on all their great learning and community building throughout Week 2 of Brite.
- **Looking Ahead to Week 3:** Build excitement for Week 3 by revealing the theme: *Investigate, Innovate, Inspire* featuring women who work in the physical sciences. Tell girls that next Monday they will meet Danielle Twum.

### **Week 2 Survey** (10 mins)

Girls complete the Week 2 post-survey on the platform.

# WEEK 3

## INVESTIGATE, INNOVATE, INSPIRE

MONDAY, JULY 24, 2023 .....

## Logging onto Brite Platform (10 mins)

Girls log in to the Brite Platform. Educators assist girls with any technical challenges.

### Britten Up: I See STEM! (15 mins)

- **Introduction:** Explain the I See STEM! icebreaker– everyone will take 2 minutes to change something in their appearance to represent a science concept (e.g., balance chemistry books on your head; apply makeup to represent a solar flare; put on blue and green to represent the ocean; etc.). Let girls know that after this activity, they will be recording a short video for the gallery showcasing their STEM look.
- **I See STEM!:** Give girls 2 minutes to change their appearance and return to their cameras. Have each girl in your group unmute or type in the chat to share how their appearance represents a science concept.

### Record and Upload to Gallery/Break (15 mins)

- Girls will record a short video showing their I See STEM! science concept on the Brite Girls Gallery.

### Brite Prep (10 mins)

Prepare for Brite Talk and introduce today's role model:

- **Introduction:** Today's role model is Dr. Danielle Twum. Danielle is a cancer immunologist, which means she studies how the immune system works in cancer. From Ghana, West Africa, Danielle Twum received her Bachelor's degree in Biology from Vassar College where she studied the effects of climate change on coral bleaching. Danielle received her PhD in Cancer Immunology from the University at Buffalo where she studied the immunology of breast cancer metastasis. Danielle combines her training as a cancer immunologist with the skills she has learned working in biotech to make science exciting and accessible to all.
- **Watch:** [IF/THEN Long Profile Video of Dr. Danielle Twum](#)
- **Brainstorm Questions:** Brainstorm a list of questions girls have for Danielle so they are prepared to ask questions during the video call with her.

### Brite Talk: Video Call with Role Model: Dr. Danielle Twum (1 hour)

#### Brite Your Way: Health PSA Video (1 hour)

- **Introduction:** Public Service Announcements or "PSAs," are videos that are created to raise awareness, share facts, change public behavior and attitudes, or spark action by those who watch them. Today, inspired by Dr. Twum's work in medicine, you will be making your own PSA video about any health topic you are interested in or passionate about.
- **Making a PSA:** When creating your PSA, explain to students that they should go through the following steps:
  - + Choose their topic
  - + Research facts about their topic
  - + Consider their audience