

TECH *style* TALES

Make. Learn. Share.

DAY 5: IT'S KNOT THE END YET Celebrating Our Learning

Families will plan their presentations, finish their projects, and share out to the group.

badges



materials

Meal & servingware
Session 5 slide deck
Scratch paper & pens
Family Guide booklets
Certificates of Completion
Camera or photographer
Badges

Backpack check-out and
check-in forms
Visiting storyteller or read-
aloud book
Sewing/crafting materials &
tools
E-textiles materials

1. WELCOME & SHARING

Share a meal and socialize

2. STORYTELLING

Share a story

3. EXPLORING

Project work
Project presentations

4. ACKNOWLEDGING

Badges & clean up

workshop day 5

MEALTIME & SHARING

30 minutes

Welcome families as they arrive. This time is for eating together and socializing.

Roam around and chat with families as they are eating. Join them for the meal at their tables and ask questions about their presentations.

Project Prompt: Create a project based on a place that is important to your family.

- What are your experiences in this place? This can be a single memory or a collection of memories.
- What do you smell, feel, hear, see there?
- What do you do when you're there?
- What makes this place important to you?

Think about how you want to share your story with the group. Do you want to act it out, have everyone take turns telling a part of the story, or share it in some other way?

materials

Meal & servingware
Daily schedule
Session 5 Slide Deck
Scratch Paper

Pens, Pencils, Markers,
Crayons

background info

- Remember that families may not be able to arrive exactly on time.
- Each day follows the same structure, so feel free to reuse the daily schedule for other sessions. You may also want to write the dates
- Families may use this time to reflect on their project presentations via the questions included in the Session 5 Slide Deck.
- of the workshops on the schedule.

Reflection Questions:

- What are you most proud of?
- What was challenging?
- How did you overcome the challenge?
- How did you help each other?
- What are you planning to do with your project?
- What do you want to make next?

SHARING A STORY

15 minutes

You may invite a visiting storyteller, scientist, artist, or even a participating family member to come and share an oral story. A story that has to do with the importance of place, community or family building, learning in everyday life, systems thinking, or embracing failure will support themes in TechStyle Tales.

AFTER THE STORY IS SHARED

Use this time to ask follow up questions about the story, such as:

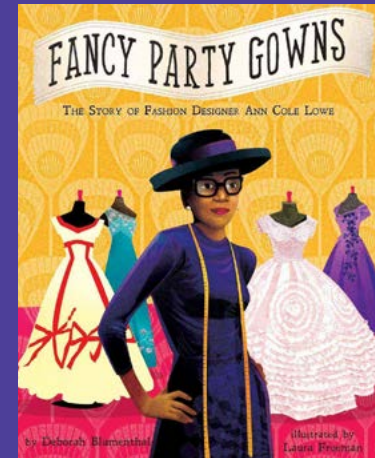
- What did the story mean to you?
- What details did you notice that you thought were interesting?
- How would the story be different if there weren't words, such as if it were to be conveyed through an e-textile?

materials

- Space to gather to hear a story
- *Optional: Video Projector & Sound*

Suggested read aloud book:

Fancy Party Gowns, The Story of Fashion Designer Ann Cole Lowe
By Deborah Blumenthal,
Illustrated by
Laura Freeman



PROJECT BUILDING & FAMILY PORTRAITS

75 minutes

Families can go directly from planning to building. Facilitators should check in on families to make sure that the plans look solid and to answer any questions along the way. Encourage families to cross-share as they work.

As it gets closer to the end of this section, make sure that all of the families have thought about their presentations.

EXPLAIN

Remember that you can use the chalk (or even a marker or pen) to draw your connections directly on the fabric. This helps to guide you as you sew, and may help you to avoid crossing your positive and negative threads!



materials

Session 5 Slide Deck
CPX (1 per family)
CPX USB cord
Laptop (1 per family)
Mouse
Projects in process
Sewing Materials & Sewing Kits

Sewn Circuit Materials
Fabric, Felt
Alligator Clips
Hot Glue Gun & Sticks
Miscellaneous Decorations
Camera or Photographer for Candid Shots and Family Portraits



background info

- Families can bring their own decorative elements from home to add, if they choose.
- Offer the option for folks to use the hot glue gun rather than sewing everything, if they want to save time or are uncomfortable sewing more than is necessary.
- In the event that there are families who would like to incorporate more advanced programming, “stretch goals” involving the infrared sensor and servo motor included in the RESOURCES section at the end of this guide.
- You may take candid photos of families working, as long as photo permission has been granted.
- As families finish, invite them to take a family portrait with their final projects.
- Give 30 minute, 15 minute, and 5 minute time warnings.
- Toward the end, go around to make sure that families have put some thought into their final presentations. They may act it out, share portions, or otherwise innovate.



PROJECT PRESENTATIONS

20-30 minutes

Families will share their stories and their projects to the whole group. This is a time to celebrate all their ambitious work!

With about 40 minutes left in the workshop, or if families are all ready to present earlier, ask for everyone's attention. Ask for a volunteer to get the presentations started.

Depending on the space, invite families to present their projects in the front of the room or at their tables, with all of the other participants gathering around. Families will most likely cover the following details in their share-out.



materials

Session 5 Slide Deck
Certificates of Completion
Camera or Photographer for Candid Shots & Portraits

background info

- Family portraits will ideally take place as families finish up their building in the previous section. Make sure to get a group photo of everyone if there's time!
- Depending on the space, invite families to present their projects in the front of the room or at their tables, with all of the other participants gathering around, or whatever works best in your space.
- Award Certificates of Completion after each family's presentation along with a round of applause (or other relevant show of appreciation) from the group!



Project Prompt:

- Create a project based on a place that is important to your family.
- What are your experiences in this place? (This can be a single memory or a collection of memories.)
- What do you smell, feel, see there?
- What do you do when you're there?
- What makes this place important to you?



After the presenting family finishes sharing, ask all or some of these follow-up reflection questions. Invite participants to ask questions at any point.

Reflection Questions:

- What are you most proud of?
- What was challenging?
- How did you overcome the challenge?
- How did you help each other?
- What are you planning to do with your project?
- What do you want to make next?

CLEAN UP & BADGES

15 minutes

Acknowledging work and tying up loose ends

Thank families for all for their work in TechStyle Tales. Share your appreciation for their creativity, collaboration, and tech skills and award final badges. They will keep their finished e-textile.

You may have families return their backpacks now, or up to two weeks later if you have the capacity. We found that some families used their backpacks at home to do more work on their e-textiles over the next few days, though some were ready to turn them in at the end of the workshop. In any case, be sure to compare the materials with the list from the check out forms they filled out at the beginning of the series to keep track of materials. This is for record-keeping and planning for the next workshop only. There are never repercussions for losing or breaking equipment.

If families are keeping the backpacks longer, be sure to let them know how to get a hold of you and what date they will need to return them, which you may write on a card that goes in the backpack.

If you have any upcoming workshops, or would like to let them know about a booster day event (a short mini-workshop where they can do more experimentation with e-textiles or robotics), now is a great time to send them home with that information.

materials

Session 5 Slide Deck
Badges, including final badge award
Pencils & Pens
Backpack check out and check in forms

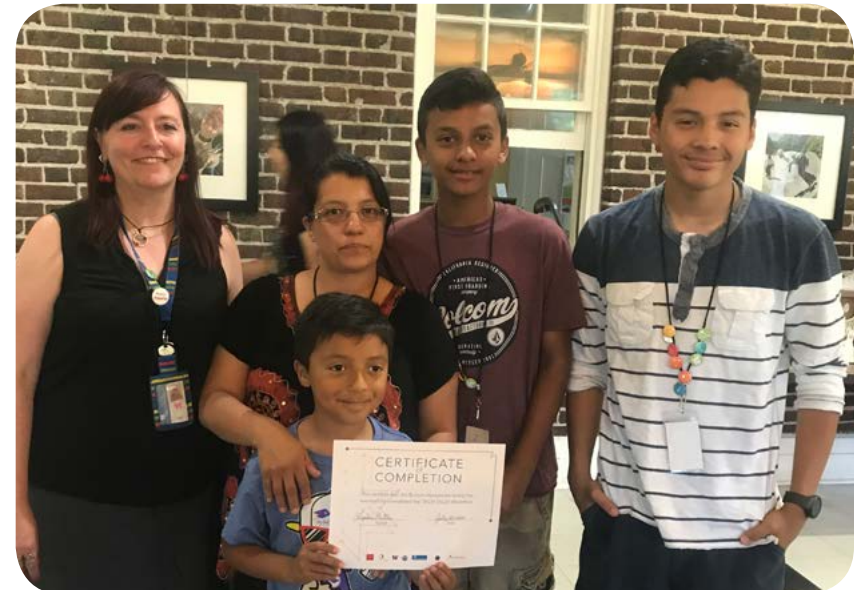
background info

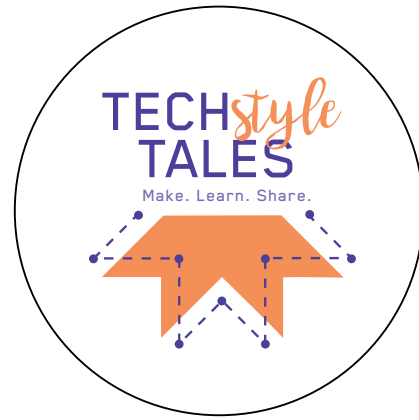
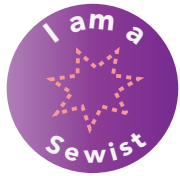
Ask family members

What is the most important thing to you, that you learned about being a (computer scientist, sewist, storyteller...etc.)?

Purpose

Family members will reflect on their experience across all workshops and identify the role(s) they most connected to.





SESSION 5 BADGES: CELEBRATION

- The purpose of the single badge of week 5 is to mark and commemorate the completion of their project, whatever state it is in.
- Since families present their e-testiles to other families and participants ask each other questions about their programming and creating experiences, the reflection that badges generally prompt isn't as necessary. However, there is an opportunity for them to think about the work they did over the course of the workshops.

RESOURCES

Tech Tales online

<http://www.techtales.online>

For more CPX learning:

Servo motors with the Circuit Playground Express

Part of the Tappy Hand tutorial

<https://learn.adafruit.com/robotic-tapping-hand-with-CPX/motorize>

MakeCode Minute: Touch Servo

<https://www.youtube.com/watch?v=XbTN2LJVZIk>

Using the infrared sensors

Build a Laser Tag Game

<https://learn.adafruit.com/circuit-playground-express-laser-tag>



This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0)