

LEARNING FROM EACH OTHER:

Intergenerational Learning with Storytelling and STEM

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Participatory Design Qualities



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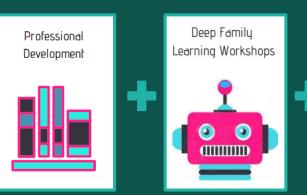
Presentation Scope



Our Story: What is Robot Backpacks?











robotics, e-textiles & storytelling

Our Story: What is Robot Backpacks?



Integral Frameworks



The City of Seattle Youth &
Family
Learning
Priorities

"Learning is Cultural" Design Principles

University of Washington



The Seattle Public Library

Our Story: What is Robot Backpacks?



Stakeholders actively participate in the design process

Participatory Design Qualities

Everyone holds knowledge: Centering Strengths



what it looks like: In the Partnership

- Involve multidisciplinary partners
- Acknowledge & disrupt traditional power dynamics
- Make time for reflection
- Value community-based knowledge and expertise which are always present

what it looks like: In the Program

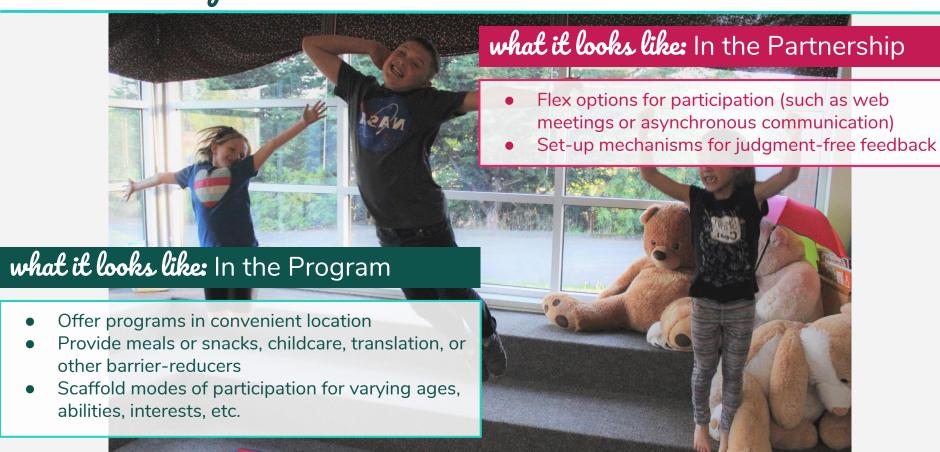
- Avoid prioritizing certain forms of engagement
- Provide moments of authentic choice in projectwork
- Infuse storytelling as a practice in the program
- Value expertise in all its forms



Trust takes time: Committing to Relationship-Building



Clear the way: Making It Possible to Show Up



We're in this together. Developing Mutual Responsibility



There's more than one way: Embracing Fluid Roles







Family Storytelling: Participatory Design in Action



Family Storytelling: Participatory Design in Action

Learn More & Reach Out:

TechTales Website: https://techtales.online/

Reconceptualizing Libraries: Perspectives from the Information and Learning Sciences Chapter 4: Building Expansive STEAM Programming Through Participatory Design Research Carrie Tzou, Philip Bell, Megan Bang, Rekha Kuver, Amy Twito & Ashley Braun | Published 2019



Appendix A: Learning is Cultural Design Principles, NSF Backpacks for Family Science Learning Scaffold playful University of Washington, 2016 Promote multiple thinking and ways of knowing teaching with your and making hands & body **LEARNING** Broaden "what Learning counts" as STEM experiences should using everyday & grow out of the professional forms lives of learners **CULTURAL** (Re)position family Support full family members as developing engagement and experts working on contribution authentic projects throughout