

Maker Ed



Making is the 21st Century Skill
(psst it's all about Community)

Jessica K. Parker, Education Community Manager

jessica@makered.org

MakerEd.org | [@MakerEdOrg](https://twitter.com/MakerEdOrg) | [@JessicaKParker](https://twitter.com/JessicaKParker)



—
Making is the act
of creating



Engaging & Motivating Learning

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Approach

- Interactive
- Open Ended
- Process Driven

Outcome

- Diverse skills
- Knowledge
- Ways of thinking





Access

Portland Children's Museum



Process



21st Century Skills

- learning to learn
 - self-directed
 - problem solve
 - take risks
 - build on ideas
 - collaborate
- failure as opportunity
 - seek resources
 - persist

Making as the 21st Century Skill

- Social and Emotional Learning
 - openness to struggle & collaboration
 - seeking resources & mining the wisdom of the room
- Value in Process
 - brainstorming and tinkering
 - iterating, building on ideas
- Reflection
 - understand strengths & areas of growth as a learner
 - learning how to learn





Photo: The Bubbler

Community of Learners



Perceptions of Maker Ed Community



(n=293)

- Generosity / willingness to share
- Sense of community
- Openness
- Creativity and innovation
- Passion
- Feeling of not being alone
- Friendly / welcoming

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Characteristics of Maker Communities



Photo: Maker Ed

Membership &
Mentorship

Intergenerational

Individual &
collaborative practices

Ethos of documenting,
sharing, and giving/
receiving feedback

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Maker Educator Learning



Photo: Maker Certificate Program at Sonoma State

Deeper understanding of students and their needs and interests

Reinvigorated/
Renewed

Change in practice:
hands-on, student-
directed, complex
assessments

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LEARNING IS A LIFESTYLE
connected to **IDENTITY**

Slide from Nichole Pinkard's talk about the [Digital Youth Divas](#) program in Chicago

Built into the fabric

Equity

Diversity

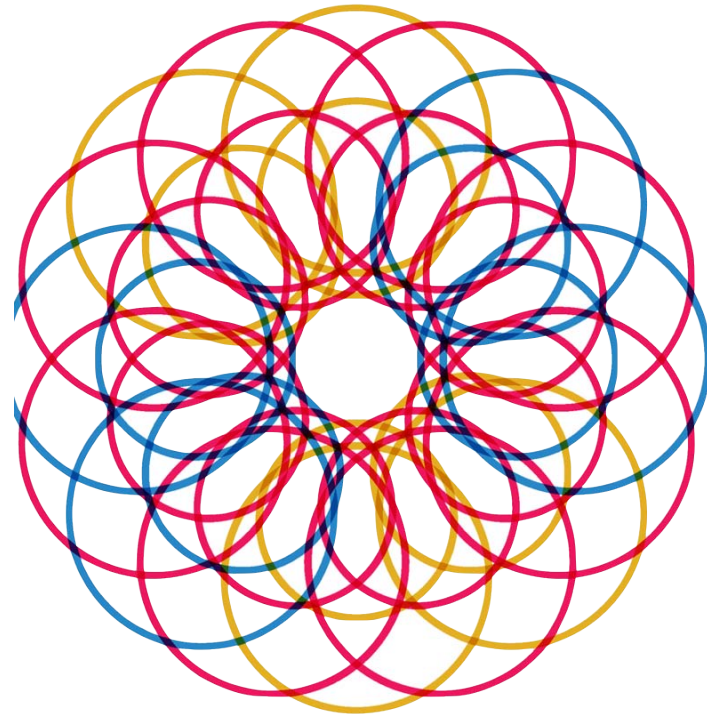
Identity

Community

of a makerspace...



Partner to
Strengthen the
Network



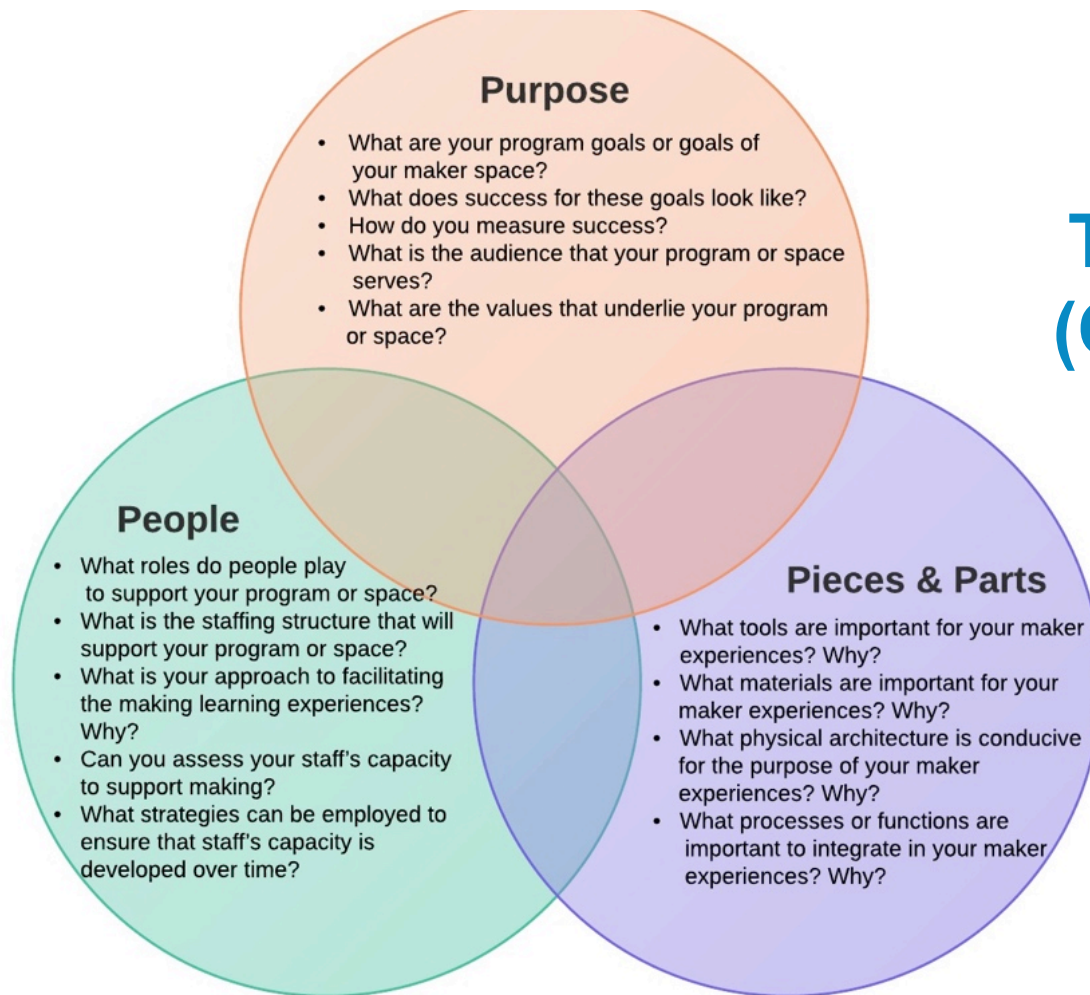


Brainstorming & Designing Activities

Brainstorm and Discuss:

- Is there anything that you'd really love to build, make, and/or invent?
- In what ways do you enjoy helping people the most?
- Think about your favorite space (a room in your home or even a space outside). Why is it your favorite? What do you like about it?





Topics & Questions (Overlap / Interplay):

- Design
- Reflection & PD
- Evaluation

<https://makingandlearning.squarespace.com/about/>

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APPENDIX A

MAKERSPACE PLANNING SHEET

	How do I imagine it being used? What do I hope to achieve?	What do I already have?	What do I still need? (Why do I need it?)	How do I get it? (From where or whom? When? At what cost?)
SPACE Think of the physical space as well as the atmosphere or environment you are trying to create.				
MATERIALS & TOOLS Consider whether or not each item will need to be maintained or replenished.				
PEOPLE Mentors, staff, volunteers, community partners, youth, etc.				

List some of the key takeaways from your interviews with youth.

Based on your youth's interest and the information in this table, brainstorm some project ideas for your space!

<http://makered.org/resources/spaces-places/>



Thank You



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[@MakerEdOrg](#) | [@JessicaKParker](#)

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