MAKING OBSERVATIONS

Evidencing Learning in Museum-Based Makerspaces
AGENDA

Evidencing Learning in Making
Making Observations
Activity: How do you see evidence of learning?
Activity: Evidencing learning
Activity: Evidencing learning in your context
EVIDENCING LEARNING THROUGH MAKING

- Evaluation in the maker movement
- Need for useful, valid, and reliable assessment tools
EVIDENCING LEARNING THROUGH MAKING

What learning is valued?
• Skills
• Knowledge
• Dispositions

How can we see evidence of this?
LEARNING PRACTICES OF MAKING

Inquire
Tinker
Seek & Share Resources
Hack & Repurpose
Express Intention
Develop Fluency
Simplify to Complexify
MAKING OBSERVATIONS

PROJECT GOALS

• Build an empirical understanding of maker learning practices
• Develop a suite of tools to assess learning through making
• Create professional development resources for museums and libraries

PROJECT PARTNERS
# Making Observations

<table>
<thead>
<tr>
<th>Phase 1: 2017 Tool Creation</th>
<th>• Iterative development, testing, and revising of tools based in the Learning Practices of Making in MAKESHOP®</th>
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| Phase 2: 2018 Tool Refinement | • Work with partners to refine & adapt tools across four contexts  
• Create a valid measurement tool  
• Develop & test professional development routines |
| Phase 3: 2019 Dissemination | • Professional development workshops: regional & online  
• Development of PD materials including a resource guide  
• Professional publications and conferences |
MAKING OBSERVATIONS: PHASE 2

WHAT WE’RE DOING

• Establish shared understanding of the learning practices
• Create one valid and reliable measurement tool
• Identify local learning values

WHAT WE’RE LEARNING…
OBJECTIVE OBSERVATIONS

• Take out a pen and paper
• You will one minute to write everything you see
**SEEK & SHARE RESOURCES:** Learners’ identification, pursuit/recruitment, and sharing of expertise with others; includes collaboration and recognition of one’s own not-knowing and desire to learn.

<table>
<thead>
<tr>
<th>SEEK - Does the learner seek...</th>
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<tbody>
<tr>
<td>• tool(s) or materials(s)</td>
</tr>
<tr>
<td>• information or understanding about tool, material or process</td>
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<tr>
<td>• assistance or support using tool, material or process.</td>
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<tr>
<th>SHARE - Does the learner share...</th>
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<tbody>
<tr>
<td>• tool(s) or materials(s) with others.</td>
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<tr>
<td>• information or understanding about a tool, material, or process (e.g., teaching another learner, calling attention to a success or something they have completed).</td>
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<tr>
<td>• a creative suggestion.</td>
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<th>EXCHANGE OF RESOURCES - Does the learner...</th>
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<tr>
<td>• coordinate or negotiate shared tools, materials, or processes for an independent project</td>
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<tr>
<td>• seek or share feedback with another person</td>
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<tr>
<td>• collaborate with another person on a project</td>
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LET’S PRACTICE MAKING OBSERVATIONS

SEEK & SHARE RESOURCES

Learners’ identification, pursuit/recruitment and sharing of expertise with others; includes collaboration and recognition of one’s unfamiliarity and desire to learn.

ACTIVITY

• Review Seek & Share Resources Tool DRAFT
• View brief video clip
• Use the tool to document your observations of learning indicators
EVIDENCING LEARNING IN YOUR CONTEXT

What learning behaviors do you value?
How would you observe that learning value?
Resources and next steps

• makingandlearning.org
• makinginmuseums.org

Stay tuned for a professional development workshop near you!