OBSERVATIONS: DATA HIDING IN PLAIN SIGHT

RIPL Data Bootcamp Rebecca Teasdale, Alison Clarke, Katie Fox

OVERVIEW

- Observations as a data collection method
 Examples: Uses of observations in libraries
- Guidelines for conducting observations
- Examples: Conducting observations in libraries
- Using observation in your library
- Next steps







STORY TIME OBSERVATION

- Children's behaviors, words, and interactions
- Presenters' and parents' behaviors, words, and interactions
- Physical setting: How crowded the room is, noise level, where people are positioned, temperature



SELF CHECKOUT OBSERVATION

- Time spent reading instructions
- Pauses, looks of confusion
- Attempts to position materials
- Help from other patrons
- Questions asked



COMPUTER CLASS OBSERVATION

- Computer skills at the beginning, during class sessions, and at the end of the class sequence
- Comments, questions, and conversations during class sessions
- Performance tasks: Asking students to demonstrate their skills

STRENGTHS OF OBSERVATIONS

Reveal patron behavior

- What they do, how they do it, what they say
- Illuminate staff/presenter behavior
- Clarity and accuracy of answers and instructions
- Strategies used during programs and services
- Fidelity of implementation

STRENGTHS OF OBSERVATIONS

- Capture manner and style of interaction, nonverbal expression, movement through a space
- Document physical environment
- Seating arrangements
- Noise level, lighting
- Amenities
- Gather documents, products, photos

LIMITATIONS OF OBSERVATIONS

- Do not help us understand
 - Why things are happening
- What people think about what is happening
- Cannot capture demographics (Do not guess!)
- Require data collector to be physically present

LIMITATIONS OF OBSERVATIONS

- Time consuming and expensive
- Susceptible to observer bias
- Risk of Hawthorne Effect
- More likely when person knows what behavior is being observed and is able to adjust their behavior

OBSERVATIONS

- Systematically document what we see and hear
- Gather data through our first-hand experience
- Do not help us understand who people are
- Do not help us understand what people think or feel or why they do what they do

SMALL GROUP DISCUSSION

Crystal Springs Public Library

- Creativity Zone provides software and equipment for digital media creation, editing, design, and digital fabrication.
- Staff decide to conduct observations to learn how the Creativity Zone is being used.

In your group:

- Review the scenario and 6 questions about how Creativity Zone is being used
- Decide which questions library staff can answer using observation

CREATIVITY ZONE OBSERVATION

Which questions can library staff answer using observation?

- ✓ How noisy is the Creativity Zone during peak hours?
- X How many Creativity Zone users live in Crystal Springs?
- \checkmark Which pieces of Creativity Zone equipment are used most often?
- ✓ How many users collaborate with others during their Creativity Zone visit?
- X What do users like best about the Creativity Zone?
- ✓ What questions do users ask staff during their Creativity Zone visit?

EXAMPLES: USING OBSERVATIONS IN LIBRARIES



Observation Studies with Colorado State Library

Summer learning with young children

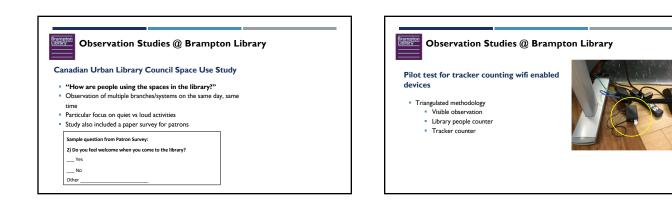
- Library was transitioning to a more outcome-based model
 Focus on relationship building and social and emotional learning (SEL)
 Unique opportunity through working with school district to see the
- same children every day for a month Library was hosting general enrichment, not focused on literacy = art, science, LEGO play time
- We observed children on multiple days, doing different activities, to see what social and emotional behaviors were happening
- Self-management, relationship skills, and problem solving

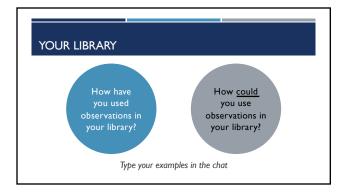
Observation Studies with Colorado State Library



Summer volunteering with teens

- This was about social and emotional skills too.
- Library wanted teen volunteers to gain workforce readiness
- Library met with local workforce readiness center to get ideas
- Developed online training for volunteers to do in down times
- We developed a rubric for teens to assess themselves
- Staff observed volunteers twice during the summer
- Observing for: self-management, attitude, communication and problem solving skills





GUIDELINES FOR CONDUCTING OBSERVATIONS



FOCUSING AN OBSERVATION

- Identify the most important information to gather, based on:
 - Purpose of the observation
- Research or evaluation question we seek to answerIntended use of observation data







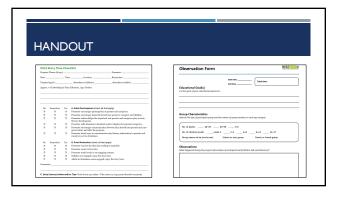
FOCUSING AN OBSERVATION

- Identify the most important information to gather, based on
- Purpose of the observation
- Research or evaluation question we seek to answer
- Intended use of observation data
- Aim to yield rich, detailed information about 1 or 2 aspects

OBSERVATION GUIDES

- Provide structure to the observation
- Direct our attention to the most important information
- Can be print or digital document
- Used to focus our attention and record data







TESTING

- Check structure of observation guide, identify sections that are missing or need revision
- Familiarize yourself with the flow (and speed!) of activities
- Practice recording data



SAMPLING

Identify subset of activities, events, or times to observe

Random sampling:	Make a list and draw numbers to select a sample
Convenience sampling:	Select sample based on scheduling constraints or other practical reasons
Purposive sampling:	Select sample to include specific programs, services, times, or locations (or a variety)

Observe multiple sessions, events, or periods of time



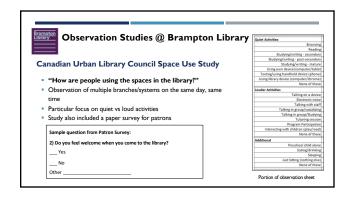
MULTIPLE OBSERVERS

- Provide training
- Conduct practice observations
- Debrief what observers saw, heard, and recorded
- Examine extent to which observers agree

QUESTIONS?

- Focusing the observation
- Using an observation guide
- Sampling
- Using multiple observers

EXAMPLES: CONDUCTING OBSERVATIONS IN LIBRARIES



Observation Studies @ Brampton Library

Observation Challenges:

- Multiple observers means multiple points of view!
- Paper vs tablet?

Br<u>ampton</u> Library

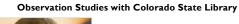
Single observer means missing things sometimes
 New technology comes with unexpected issues



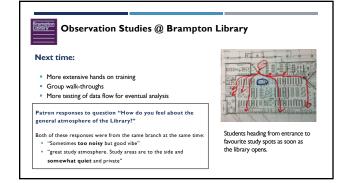
Sensor with tinfoil hat...

Observation Studies with Colorado State Library

- With the younger children we thought our observers could evaluate using a rubric while they were observing.
- We threw that out immediately. Way too hard to synthesize!
- For teens, observers wrote everything down in the moment and then filled out the rubric right away.
- Some areas of the rubric were not observable.
- Attitude, communication skills when they had no interactions, problem-solving when they didn't encounter problems.



- Embrace the mess. Taking the mess out takes out what is great too. Prep yourself and your team to adapt in the moment.
- Until you try it out, it's really hard to know what's going to work in practice.
 - Be open to noticing and discovering information you didn't anticipate. The SEL behaviors we saw varied a lot depending on how activity was structured.
 - Realizing how many teen volunteers had no interactions during their shift.
- Sometimes you might need to "break character." Use your best judgement.



QUESTIONS?

- Process of conducting observations
- Challenges, adjustments, and lessons learned

SMALL GROUP DISCUSSION

- How would you like to use observations in your library?
- What do you hope to learn?
- What challenges might you face? How might you address them?



NEXT STEPS





I. Conduct a (virtual) observation and record data

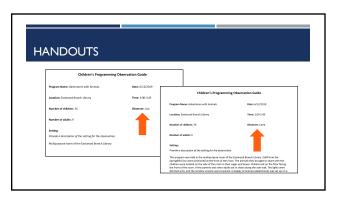
2. Tune in to the recorded follow-up lesson

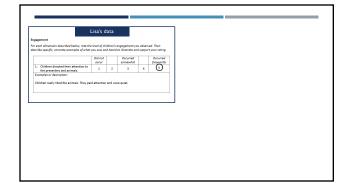
Children's Programming Observation Guide	
Program Name:	Date
Location:	Time:
Number of children:	Observer:
Number of adults:	
Setting	
Provide a description of the setting for the obs	creation.
Summary of Activities:	
	Program Rame: Lacitize: Rumber of childres; Rumber of childres; Setting: Provide a description of the setting for the offe

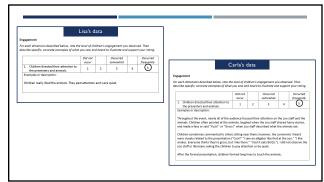
RECORD DATA

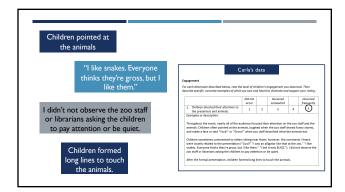
- Capture concrete, specific details of what you see and hear
- Record the moment-by-moment sequence of events
- Reflect on the observation overall to rating scales or checklists
- Avoid generalizations, vague descriptions, interpretations

















I. Conduct a (virtual) observation and record data

2. Tune in to the recorded follow-up lesson

IMAGES LICENSED UNDER CREATIVE COMMONS

Binoculars by Peter Miller Story time by San Jose Public Library Snapshot day at Darien Library by Darien Library Technology & computers by Austin Public Library Focus by Michael Dales Directions to the rest of the world by Michael Coghlan Test by essenj Morning Circle at Preschool, still image from video: https://www.youtube.com/watch?v=PZY:hB2C_lw&t=908s

Waiting for the entertainment to arrive by marneejill

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