

Activity 4: Data Collection Tools

Tool	Description	Pros	Cons
Interviews	<ul style="list-style-type: none"> • Oral question and answer session between an evaluator and a single individual • Can flow naturally from spontaneous questions (unstructured), follow a rigid set of questions (structured), or include a combination (semi-structured) • Can be in person, over the phone, or by video conference 	<ul style="list-style-type: none"> • Can yield detailed, in-depth information • Allows evaluator to ask clarifying questions • Allows evaluator to explore new topics as they come up 	<ul style="list-style-type: none"> • Self-reported • Difficult to collect data from a large number of people • Time consuming to collect and analyze • Expensive
Focus groups	<ul style="list-style-type: none"> • Group interview between an evaluator(s) and a group of people • Can be semi-structured or unstructured • Can be in person, over the phone, or by video conference 	<ul style="list-style-type: none"> • Shows interactions among individuals • Could make some participants more comfortable than individual interviews • Allows evaluator to explore new topics as they come up • Efficient • Relatively cost effective 	<ul style="list-style-type: none"> • Can't ensure confidentiality for focus group participants • Group dynamics can negatively influence information that is shared • Difficult over the phone or by video • Difficult to transcribe • Self-reported
Observations	<ul style="list-style-type: none"> • Evaluator(s) observe a particular setting, including what is happening between people, how people interact with materials in the setting, etc. • Can be unstructured (e.g., a running record), semi-structured, or structured by a formal protocol or validated observation tool 	<ul style="list-style-type: none"> • Shows how people behave and interact with others, how they apply new knowledge or skills, how they respond to an activity or curriculum, etc. 	<ul style="list-style-type: none"> • May require extensive evaluator training and certifications • May require multiple evaluators and thus becomes expensive • May require a lot of

	<ul style="list-style-type: none"> • Can be live and in-person, or from video or audio recordings 	<ul style="list-style-type: none"> • Minimizes “asks” of evaluation participants 	<p>time to analyze and interpret data</p> <ul style="list-style-type: none"> • Unclear how well observations capture what usually happens in the setting
Surveys	<ul style="list-style-type: none"> • Written questionnaire with open- and/or close-ended items • Often one-shot (cross-sectional) but can also be longitudinal (given to the same people two or more times) • For maximum efficiency, can be done online or using scannable forms 	<ul style="list-style-type: none"> • Participants can be anonymous • Efficient way to gather the same information from many people • Relatively easy to get quantitative data by using response scales (e.g., the Likert Strongly Agree to Strongly Disagree Scale) • Efficient way to get pre/post-comparisons or change over time 	<ul style="list-style-type: none"> • Difficult to design questions that are easily understood but not leading • Sometimes difficult to get surveys to the right people • Challenging to persuade people to complete surveys • May be hard for people with low levels of literacy or formal schooling to complete • Online may not be accessible to everyone • Self-reported
Tests	<ul style="list-style-type: none"> • Formal, systematic procedures for collecting information about people’s characteristics, such as their cognitive or emotional states • Can be given online, via computer, or with paper and pencil • Can use standardized items to make comparisons across huge numbers of people 	<ul style="list-style-type: none"> • Can show how people apply new knowledge or skills • Participants can be anonymous • Efficient way to gather the same information 	<ul style="list-style-type: none"> • Very difficult to design reliable and valid tests • Very difficult to find tests that work for non-academic things • Can be expensive • Can be especially

	<ul style="list-style-type: none"> • Can use different versions of the same test over time (e.g., different test questions about the same concept for a pre/post-test) 	<ul style="list-style-type: none"> • from many people • Efficient way to get pre/post-comparisons 	<ul style="list-style-type: none"> • stressful for participants
Rubrics or protocols for reviewing documents or artifacts	<ul style="list-style-type: none"> • Formal, systematic procedures for reviewing and interpreting data that aren't standardized (e.g., essays, journal entries, photographs) • Can be repeated over time with new artifacts 	<ul style="list-style-type: none"> • Can show how people apply new knowledge or skills • Participants can be anonymous • Can show pre/post-comparisons or change over time 	<ul style="list-style-type: none"> • May require extensive evaluator training and certifications • May require multiple evaluators • May require a lot of time to analyze and interpret
Extant data	<ul style="list-style-type: none"> • Any data that already exist out in the world and are accessible for use • Includes public records, government data sets, etc. • Can include cross-sectional or longitudinal data 	<ul style="list-style-type: none"> • Easy to access • Usually free • Usually efficient for evaluators to work with • Can show pre/post-comparisons or change over time • Participants are usually anonymous 	<ul style="list-style-type: none"> • Data collected may or may not be a good fit for your evaluation questions • May not be possible to match extant data to specific people, such as program participants • May be self-reported

Adapted from:

Creswell, J. W. (1998). *Qualitative inquiry and research design: Choosing among five traditions*. Thousand Oaks, CA: SAGE.

Gay, L. R., Mills, G. E., & Airasian, P. (2009). *Educational research: Competencies for analysis and applications* (9th ed.). Upper Saddle River, NJ: Merrill.