Chapter 3

Data and Evaluation Questions

Program Evaluation Toolkit

Module 5 — Data Quality

Evaluation Matrix: Evaluation Questions

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	*What type of sampling will you use? What will the sample size be for each group?*	*What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?*	*How will you collect the data (for example, existing database query, online survey, in-person focus groups)?*	*When and how frequently will you collect the data?*	*How will you summarize the data so that the data are usable?*	*How will you reach a conclusion regarding your evaluation question?*
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?						
What barriers exist that prevent AMMP! participants from completing homework?						

Evaluation Matrix: Sample

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	*What type of sampling will you use? What will the sample size be for each group?*	*What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?*	*How will you collect the data (for example, existing database query, online survey, in-person focus groups)?*	*When and how frequently will you collect the data?*	*How will you summarize the data so that the data are usable?*	*How will you reach a conclusion regarding your evaluation question?*
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?	**Convenience sampling of all participating and non-participating AMMP! students.**					
What barriers exist that prevent AMMP! participants from completing homework?	**Purposive sampling of teachers, parents, and students. Two total focus groups for students, parents, and teachers (six in total). Approximately eight for each focus group.**					

Evaluation Matrix: Data

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	*What type of sampling will you use? What will the sample size be for each group?*	*What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?*	*How will you collect the data (for example, existing database query, online survey, in-person focus groups)?*	*When and how frequently will you collect the data?*	*How will you summarize the data so that the data are usable?*	*How will you reach a conclusion regarding your evaluation question?*
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?	**Convenience sampling of all participating and non-participating AMMP! students.**	**Data on homework completion and accuracy for students who did and did not participate in AMMP!.**				
What barriers exist that prevent AMMP! participants from completing homework?	**Purposive sampling of teachers, parents, and students. Two total focus groups for students, parents, and teachers (six in total). Approximately eight for each focus group.**	**Focus group transcripts from teachers, parents, and students about barriers to homework completion.**				

Evaluation Matrix: Collection Method[1]

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	What type of sampling will you use? What will the sample size be for each group?	What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?	How will you collect the data (for example, existing database query, online survey, in-person focus groups)?	When and how frequently will you collect the data?	How will you summarize the data so that the data are usable?	How will you reach a conclusion regarding your evaluation question?
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?	Convenience sampling of all participating and non-participating AMMP! students.	Data on homework completion and accuracy for students who did and did not participate in AMMP!.	Request gradebook data related to math homework for students who did and did not participate in AMMP!.			
What barriers exist that prevent AMMP! participants from completing homework?	Purposive sampling of teachers, parents, and students. Two total focus groups for students, parents, and teachers (six in total). Approximately eight for each focus group.	Focus group transcripts from teachers, parents, and students about barriers to homework completion.	Collect focus group data from teachers, parents, and students, using audio recorders and notes.			

Additional Resources
- *Evaluation Matrix*
- *A Guide to Using State Longitudinal Data for Applied Research*

Module 5
Data Quality

Evaluation Matrix: Time Frame

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	*What type of sampling will you use? What will the sample size be for each group?*	*What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?*	*How will you collect the data (for example, existing database query, online survey, in-person focus groups)?*	*When and how frequently will you collect the data?*	*How will you summarize the data so that the data are usable?*	*How will you reach a conclusion regarding your evaluation question?*
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?	**Convenience sampling of all participating and non-participating AMMP! students.**	**Data on homework completion and accuracy for students who did and did not participate in AMMP!.**	**Request gradebook data related to students' math homework for students who did and did not participate in AMMP!.**	**Collect homework data quarterly throughout the school year.**		
What barriers exist that prevent AMMP! participants from completing homework?	**Purposive sampling of teachers, parents, and students. Two total focus groups for students, parents, and teachers (six in total). Approximately eight for each focus group.**	**Focus group transcripts from teachers, parents, and students about barriers to homework completion.**	**Collect focus group data from teachers, parents, and students, using audio recorders and notes.**	**Collect focus group data during the middle of the school year and again at the end.**		

Additional Resources

- *Evaluation Matrix*

Module 5 Data Quality

Evaluation Matrix: Analysis and Interpretation

- An evaluation matrix is a tool to ensure that you have all the information you need to address your evaluation questions.

Evaluation Question	Sample	Data	Collection Method	Time Frame	Analysis Method	Interpretation
What evaluation question are you seeking to answer?	*What type of sampling will you use? What will the sample size be for each group?*	*What data will you use to address this question (for example, assessment scores, survey responses, focus group data)?*	*How will you collect the data (for example, existing database query, online survey, in-person focus groups)?*	*When and how frequently will you collect the data?*	*How will you summarize the data so that the data are usable?*	*How will you reach a conclusion regarding your evaluation question?*
How does the completion rate of homework with better than 80 percent accuracy compare between AMMP! participants and nonparticipants?	Convenience sampling of all participating and non-participating AMMP! students.	Data on homework completion and accuracy for students who did and did not participate in AMMP!.	Request gradebook data related to students' math homework for students who did and did not participate in AMMP!.	Collect homework data quarterly throughout the school year.		
What barriers exist that prevent AMMP! participants from completing homework?	Purposive sampling of teachers, parents, and students. Two total focus groups for students, parents, and teachers (six in total). Approximately eight for each focus group.	Focus group transcripts from teachers, parents, and students about barriers to homework completion.	Collect focus group data from teachers, parents, and students, using audio recorders and notes.	Collect focus group data during the middle of the school year and again at the end.		

Program Evaluation Toolkit

REL Central at Marzano Research

COLORADO KANSAS MISSOURI NEBRASKA NORTH DAKOTA SOUTH DAKOTA WYOMING

Additional Resources

- *Evaluation Matrix*

Module 5 Data Quality

Thank You

Please visit our website and follow us on Twitter
for information about our events, priorities, and research alliances,
and for access to our many free resources.

ies.ed.gov/ncee/edlabs/regions/central/index.asp
@RELCentral

or contact us at

RELCentral@marzanoresearch.com

REL Central at Marzano Research
COLORADO KANSAS MISSOURI NEBRASKA NORTH DAKOTA SOUTH DAKOTA WYOMING

References

1. Levesque, K., Fitzgerald, R., & Pfeiffer, J. (2015). *A guide to using state longitudinal data for applied research* (NCEE 2015-4013). U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. https://ies.ed.gov/ncee/pubs/20154013/