Crafting Strong Measures for Indicators of Performance



American Evaluation Association Conference 2019 November 15, 2019

2M Research

Nicole Togno, PhD Ashley Simpkins, MA Naorah Lockhart, PhD







2M provides technical assistance to the Department of Education's Arts in Education grantees—including review of goals, objectives, and performance measures.



Z™

• The role of the evaluator

- How to demonstrate evidence of success
- How to implement a strong evaluation design
- Performance measures activity



The Role of the Evaluator



A high-quality evaluation design includes the evaluator in planning, implementation, and evaluation.



Assist in the development of a logic model



Recommend analysis methods and perform **analyses**



Assist in the development of **performance measures**



Interpret analysis results



Define the comparison group



Assess the **impact** of program changes on the evaluation activities

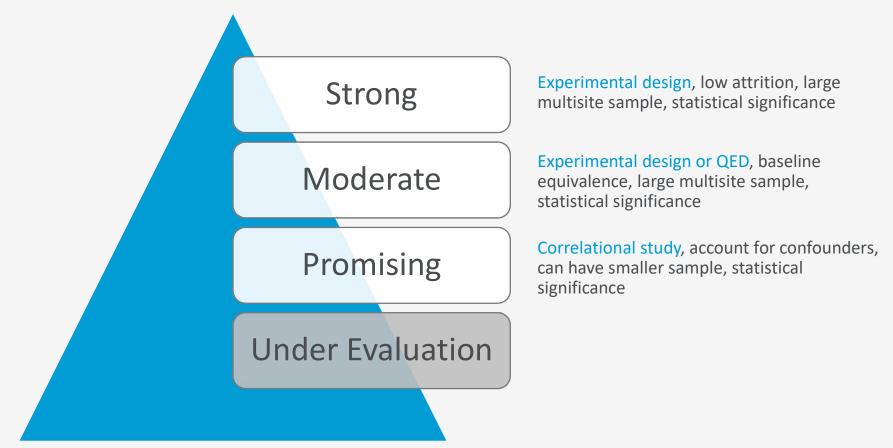


Recommend data collection plans and identify or develop assessment tools



Ź™

The Every Student Succeeds Act (ESSA) defines **four levels of evidence**, each offering an increasingly rigorous evidence base.





Evidence of Success



What Works Clearinghouse (WWC) Standards

Strong evidence

• Always meets WWC standards without reservations

Moderate evidence

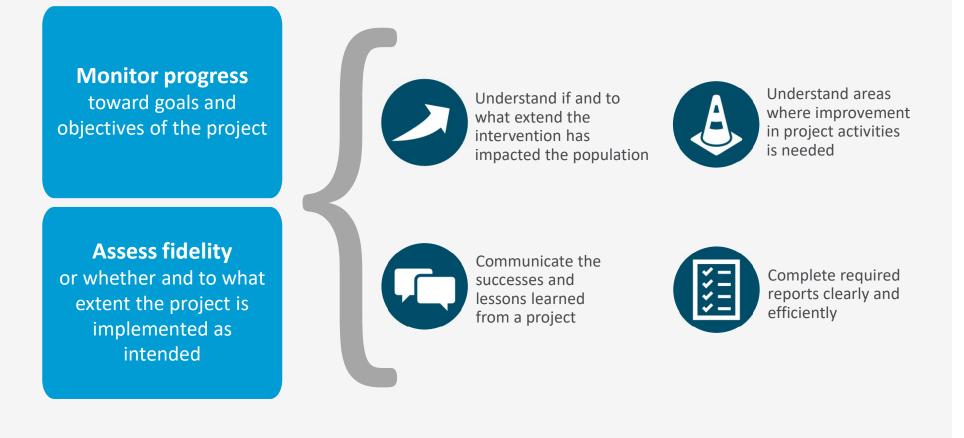
• Always meets WWC standards with reservations

Promising evidence

• *May* meet WWC standards with reservations if there is a valid comparison group and baseline equivalence



Regardless of the level of evidence, all evaluations should **monitor progress** and **assess fidelity**.





Ensure there is alignment between the goals, objectives, and performance measures.

A goal is a general statement that describes what the program seeks to accomplish.

> Improve student achievement in English Language Arts (ELA)

An **objective** is a targeted statement that specifies how a project goal will be met.

Expose students to artsintegrated curriculum units to increase content knowledge in ELA A performance measure is a metric used to gauge progress toward a project goal.

90 percent or more of participating students improve on an assessment of ELA knowledge by Fall 2019



Monitoring Progress

- Utilize performance measures to gauge progress toward each goal and objective of the project
- May be required by program guidelines (e.g., GPRA)
- Five components of strong performance measures

3 Λ 5

Written in clear and specific language

Measures one thing, not multiple

Realistic and achievable

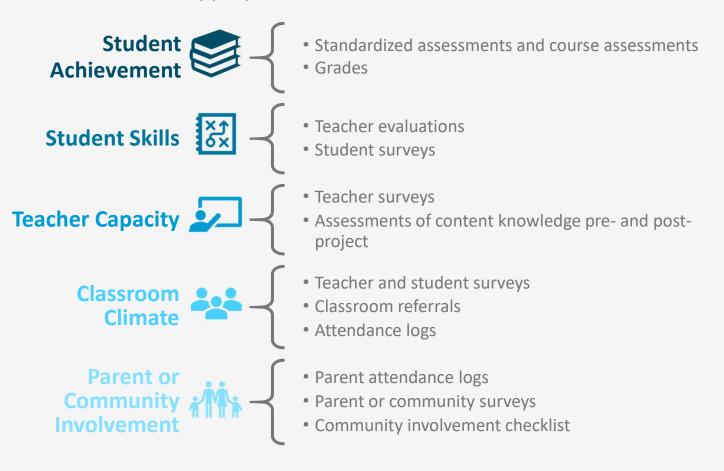
Aligned with project goals and objectives

Specifies a timeframe for success



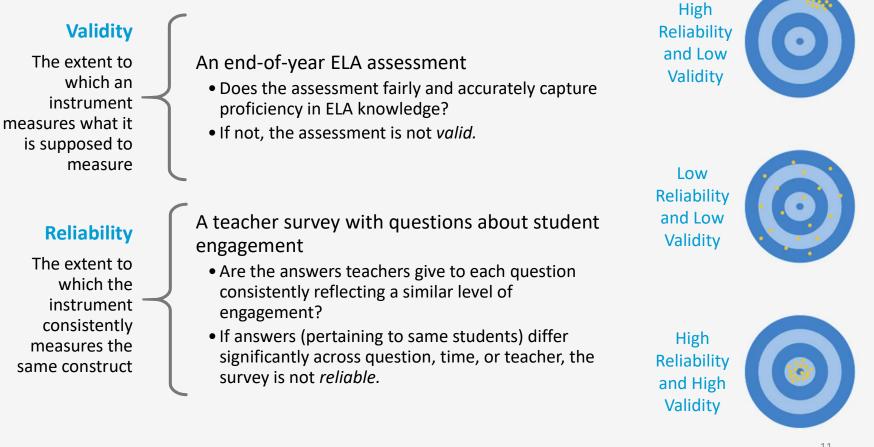


Select the appropriate **tools** to measure outcomes.





Ensure the **reliability** and **validity** of selected tools.







The Evaluation Planning Matrix (EPM)

Ensures that goals and objectives have associated performance measures and data sources



Focuses evaluation activities on **collecting evidence that speaks directly to progress toward the goals** of the project

Ensures that the entire project team is on the same page

Helps identify potential **challenges and resources** to address them

Serves as a management tool

Example:

| Goal | Objective | Performance Measure | Data Source/Tool |
|---------------------------------------|--|---|----------------------------|
| Improve student achievement in ELA | Expose students to arts-integrated curriculum units to increase content knowledge in ELA | 90 percent or more of participating students improve on an assessment of ELA knowledge by fall 2019 | Standardized assessment |

https://www.cdc.gov/std/program/pupestd/PUPESTD_Eval-Matrix_ShortGuide_Final.pdf



Example of a Problematic EPM

| Goal | Objective | Performance Measure | Data Source/Tool |
|--|--|--|--|
| Increase student engagement in the classroom | Expose students to arts-integrated curriculum to increase engagement in math class | Students will appear more engaged by Spring 2019 | Pre-post classroom observation |
| Improve teacher content knowledge of the arts | Expose teachers to learning opportunities | Treatment teachers will score significantly better on an assessment of arts content knowledge than comparison teachers by Fall 2019 | A pre-post assessment of teacher perceptions of arts integration |
| Improve student reading comprehension | Implement professional development workshops for teachers | 95% of students will experience a statistically significant increase in reading comprehension from Fall 2018 to Fall 2019 | A standardized assessment of student reading comprehension given at the end of the intervention |



Example of a Problematic EPM

Non-specific language

| Goal | Objective | Performance Measure | Data Source/Tool |
|--|--|--|--|
| Increase student engagement in the classroom | Expose students to arts-integrated curriculum to increase engagement in math class | Students will appear more engaged by Spring 2019 | Pre-post classroom observation |
| Improve teacher content knowledge of the arts | Expose teachers to learning opportunities | Treatment teachers will score significantly better on an assessment of arts content knowledge than comparison teachers by Fall 2019 | A pre-post assessment of teacher perceptions of arts integration |
| Improve student reading comprehension | Implement professional development workshops for teachers | 95% of students will experience a statistically significant increase in reading comprehension from Fall 2018 to Fall 2019 | A standardized assessment of student reading comprehension given at the end of the intervention |





Example of a Problematic EPM

| Goal | Objective | Performance Measure | Data Source/Tool |
|--|--|--|--|
| Increase student engagement in the classroom | Expose students to arts-integrated curriculum to increase engagement in math class | Students will appear more engaged by Spring 2019 | Pre-post classroom observation |
| Improve teacher content knowledge of the arts | Expose teachers to learning opportunities | Treatment teachers will score significantly better on an assessment of arts content knowledge than comparison teachers by Fall 2019 | A pre-post assessment of teacher perceptions of arts integration Limited content validity |
| Improve student reading comprehension | Implement professional development workshops for teachers | 95% of students will experience a statistically significant increase in reading comprehension from Fall 2018 to Fall 2019 | A standardized assessment of student reading comprehension given at the end of the intervention |





Example of a Problematic EPM

| Goal | Objective | Performance Measure | Data Source/Tool |
|--|--|--|--|
| Increase student engagement in the classroom | Expose students to arts-integrated curriculum to increase engagement in math class | Students will appear more engaged by Spring 2019 | Pre-post classroom observation |
| Improve teacher content knowledge of the arts | Expose teachers to learning opportunities | Treatment teachers will score significantly better on an assessment of arts content knowledge than comparison teachers by Fall 2019 | A pre-post assessment of teacher perceptions of arts integration |
| Improve student reading comprehension | Implement professional development workshops for teachers | 95% of students will experience a statistically significant increase in reading comprehension from Fall 2018 to Fall 2019 | A standardized assessment of student reading comprehension given at the end of the intervention |
| | T | | |
| | Not aligned to goal | Unrealistic and not measurable | |

Performance Measures Activity



- 1. Think about the three most important goals of a current or previous project.
- 2. Develop an EPM with at least one objective and one performance measure for each goal, and the data source/tool you plan to use or are using to capture the information.
- 3. Discuss each EPM as a group.

| Goal | Objective | Performance Measure | Data Source/Tool |
|------|-----------|---------------------|------------------|
| | | | |
| | | | |
| | | | |
| | | | |