

Effectiveness Criteria

Evaluation Analyses

	Descriptive		Statistical			
	Percentage	Cross Tab	Correlation	t-test	ANOVA	Regression
Program Sample at One Time Point	Evaluated in Fewer than 5 Sites: Level 1	Evaluated in Fewer than 5 Sites: Level 1	Level 2	Level 2	Level 2	Level 2
	Evaluated in 5+ Sites: Level 2	Evaluated in 5+ Sites: Level 2				
Comparison or Control Group	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3
Pretest/ Posttest	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3
Cross Sectional	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3
Longitudinal	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3
Sequential	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3
Random Assignment	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3

Evaluation Design

Effectiveness Criteria Definitions

Evaluation Design

- **Program Sample at One Time Point** – Data regarding relevant outcomes (e.g., teacher attrition, student achievement, college readiness) are collected at one time from program participants.
- **Comparison or Control Group** – Data regarding relevant outcomes are collected from program participants and a comparison group. Group membership is not randomly assigned (e.g., non-participating students, state or national averages).
- **Pretest/ Posttest** – Data regarding relevant outcomes are collected before and after program implementation.
- **Cross Sectional** – Data regarding relevant outcomes are collected from two groups of students at different stages of the program, and compared to each other (e.g., data from 6th grade students early on in the program are compared to data from 12th grade students near program completion).
- **Longitudinal** – Data regarding relevant outcomes are collected from students at the beginning of the program, and repeatedly measured over time to examine changes (e.g., the same group 6th grade students are measured early on in the program, and then the next year when they are 7th grade students).
- **Sequential** – Data regarding relevant outcomes are collected from two parallel cohorts of students, producing both cross sectional and longitudinal data (e.g., a group of 6th grade students are measured at year one, and then again in two years when they are 8th grade students. *At the same time* a group of 7th grade students are measured at year one, and then again in two years when they are 9th grade students).
- **Random Assignment** – Data regarding relevant outcomes are collected from two groups, whose membership is determined at random. One group participated in the program, and the other does not (e.g., students are randomly assigned into two groups, one that participates in after-school tutoring, one that does not; their grades are compared).

Evaluation Analysis

- **Percentage** – Relevant data are presented in ratios (e.g., 90% of program participants successfully graduated from a 4-year university).
- **Cross Tabulation** – Relevant data are present as categorical frequencies or percentages (e.g., 90% of female program participants successfully graduated from a 4-year university).
- **Correlation** – The relation between two relevant variables is presented as a numerical summary indicating degree of positive or negative association (e.g., numbers of hours studying and academic achievement had a .75 correlation).
- **t-test** – The average scores of two groups are statistically compared to test if they are significantly different from one another (e.g., average participant achievement scores were statistically significantly higher than mean non-participant achievement scores).
- **ANOVA** – The average scores of two or more groups are statistically compared to test if they are significantly different from one another (e.g., students who attend 4-year institutions earn statistically significantly higher average salaries than students who attend 2-year institutions or trade schools).
- **Regression** – Program-relevant variables are used to statistically predict program-relevant outcomes (e.g., number of years in the program statistically significantly predicts college completion).