Evaluation as a tool for assessing the effectiveness of teaching interventions

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Helping STEM programs grow through data-driven evidence
PROGRAM EVALUATION IS:

Systematic process of collecting information about a program to help stakeholders better understand the program, improve its effectiveness, make informed decisions about future programming, and/or demonstrate program impact.
### Planning Logic Models

<table>
<thead>
<tr>
<th>Problem statement</th>
<th>Goals</th>
<th>Assumptions</th>
<th>Resources</th>
<th>Activities</th>
<th>Outputs</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beliefs or ideas about the program, the people involved, and how it will work.</td>
<td>Key activities or strategies to address the needs</td>
<td>Resources available or needed for program implementation</td>
<td></td>
<td>Participation; Statistics; Products; Services</td>
<td>Changes expected to occur as a direct result of program implementation. (e.g., Knowledge, Attitudes, Behaviors, Beliefs, Skills, Status, Level of functioning)</td>
<td></td>
</tr>
</tbody>
</table>

- **Long-term (7-10 yrs.)**
- **Intermediate (4-6 yrs.)**
- **Short-term (1-3 yrs.)**
Methods

- Document Review
- Observation
- Survey
- Test
- Interview
- Focus Group
Analyses

- Importance of single number
- Comparison of 2 or more points
- Comparison to a benchmark
- Survey results
- Demonstrate parts of a whole
- Relationship among 2 or more variables
- Show changes over time
- Provide narrative or emphasize findings
REPORTING
QUESTIONS

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