

STEM (Science, Technology, Engineering & Math) Program Assessment Tool

Use this worksheet to identify the skills and strategies necessary to develop an effective STEM project. Check the box which most applies for your program's current skill level. Note where you feel improvement is needed and the kind of support your program will require.

Skill Category	Strong	Good	Fair	Needs Improvement	Notes/ Support You Need
Facilitating STEM					
Familiarity with the STEM process					
Supporting inquiry and participant led projects					
Selecting and refining project goals and objectives					
Encouraging collaboration through project group work					
Familiarity with core positive youth development principles					
Comfort with stages of scientific inquiry (observations, hypothesis, testing, data collection, findings)					
Basic digital/media literacy					
Comfort with the fundamentals of math					
Awareness of your participant's career interests or educational aspirations					
Connecting to the School Day					
Comfortable synthesizing academic content into out-of-school activities					
Ability to access information participants are learning in school					
Connecting with your participants' teachers and schools					

Skill Category	Strong	Good	Fair	Needs Improvement	Notes/ Support You Need
Knowledge about STEM career options and pathways					
Ability to craft authentic STEM experiences aligned to the context and realities of your community					
Developing Staff					
Dedicating professional development time and resources to adequately prepare staff in STEM practice					
Embedding evaluation and assessment in programming to support reflection and revision					
Tracking data to measure change in learning over time					
Access to technology tools – computers, audio recorder, video camera, still camera					
Links to STEM volunteers and advisors					
Drawing on Resources					
Basic understanding of how to engage community members (participants, parents, neighbors, leadership, etc.)					
Selecting developmentally appropriate learning activities					
Awareness of community policies and issues related to STEM					
Linkage to community resources – environmental agencies, media organizations, museums, science centers, universities					
Understanding of home/family exposure to and familiarity with STEM					
Connections to STEM industry					
Knowledge of additional resources available on STEM in afterschool					