

PROMISING PRACTICES

For Engaging Girls in STEM in OST

Program Self-Assessment Tool

Purpose:

- 1. Assess Program Quality: Rate program performance based on the Promising Practices. Engage perspectives of staff, youth, families, school, and community partners.
- 2. **Plan:** Generate and implement an action plan for program enhancement and direct resources towards implementation of the Promising Practices. Guide professional development for staff. Identify and celebrate strengths.
- 3. Enhance Program Quality: Implement the action plan, taking time to reflect on progress along the way. Once key goals are met, re-assess and update the action plan accordingly.

1) Celebrate Diversity ^{3,13,21,23,25} Design programs to be girl-centric and culturally responsive. Don't assume that all girls are	Doing It!	
alike. How girls encounter the world is influenced not only by gender, but their unique demographic, geographic, and psychological make up. Incorporate girls' unique interests, identities, cultures, and abilities into the STEM learning experiences. Ensure that all girls have the opportunity to participate, regardless of zip code, income, or background.	Trying it	
	Not Yet	
Notes:		

2) Create Safe Spaces and Sense of Belonging ^{3,11,12,21,25,28} Create safe places where girls feel they belong and fit in. Safe spaces for girls include physical safety as well as emotional and social safety. Design your program space with culturally-diverse and girl-friendly images and materials that counter stereotypes of who does STEM. Give girls opportunities to share their opinions, collaborate on projects, and build trusting relationships.	Doing It!
	Trying it
	Not Yet
Notes:	

3) Start Early and Keep it Going ^{3,6,7,13,14,19,20,21,28,30} Spark girls' interest in STEM early. Girls are born as young scientists with a natural curiosity about the world. Yet many girls start to lose confidence and interest in STEM as early as third grade. By high school, gaps in interest are significant, with many girls no longer considering STEM pathways. Continue to inspire and engage girls in STEM at all ages as they make decisions about who they are and whether they are good at and like STEM.	Doing It!	
	Trying it	
	Not Yet	
Notes:		

4) Invite Girls to Change the World through STEM Girls have a strong desire to change the world. They are more attracted to STEM when they can use it to help others and their communities. Design hands-on STEM learning that is relevant to girls' everyday culture and experiences. Empower girls to use STEM to solve real problems in their communities.	Doing It!	
	Trying it	
	Not Yet	
Notes:		



) Elevate the Voices of Girls ^{21,25,28} wite girls to design, plan, and implement STEM education activities. Empower girls to mare their opinions and make choices about their STEM learning. Provide opportunities for	Doing It!
girls to step up as leaders and mentors. Design events, such as family STEM nights, that put girls in charge and in the spotlight. Create a learning environment where girls and boys are invited and encouraged equally to express their ideas. Equip girls with strategies to	Trying It
communicate effectively and confidently, especially in traditionally male-dominated educational and work environments.	Not Yet
Notes:	
6) Create Opportunities for Mastery ^{4,21,26,28,30} Encourage girls to get out of their comfort zone, try ideas, and explore how things work.	Doing It!
Introduce girls to new tools, technology, and ideas. Teach girls to embrace failure as a natural part of learning. Empower girls to master new skills, develop grit, and build	Trying it
confidence.	Not Yet
Notes:	
7) Involve Families 7,13,14,18,22,25,28	Deinerth
Create welcoming spaces for families to explore STEM with their daughters. Invite families	Doing It!
to share their input in program design. Recognize the diverse perspectives of families in outreach and communication. Educate parents about STEM opportunities and career pathways that boost their daughters' talent and potential. Acknowledge the discomfort and	Trying it
uncertainty parents may feel about STEM. Let parents know that they don't need to be the experts or have the answers; it's their encouragement that matters most.	Not Yet
Notes:	
2,13,17,19,20,21,25	
8) Engage Female Role Models and Mentors "You can't be what you can't see." Create opportunities for girls to interact with female	Doing It!
STEM role models with whom they can identify. Ask role models to share personal stories and how their careers make the world a better place. Invite role models to help girls see	Trying it
beyond stereotypes, create a positive STEM identity, and imagine themselves as future scientists and experts in STEM careers.	Not Yet
Notes:	



9) Connect with Community Partners ^{7,14,19,20,21,22,25,28} Foster opportunities for girls to learn from community partners and to experience STEM in different settings. Invite diverse community partners to OST programs to interact with girls. Bring together partners in education, business, cultural institutions, youth development,	Doing It!
	Trying it
government, and others to collaborate, coordinate, and grow STEM learning and career pathway opportunities for girls.	Not Yet
Notes:	
10) Explore Career Pathways ^{21,25,28} Introduce girls to a wide variety of STEM career and education pathways. Open doors for	Doing It!
girls to identify their interests and explore how they connect with STEM careers. Engage New Mexico STEM industry partners to help girls see how STEM solves real-world challenges.	Trying it
	Not Yet
Notes:	

11) Provide Training and Resources for Afterschool Professionals ^{2,4,15,16,28,30} Equip OST staff with training, curricula, and materials that boost their ability and confidence	Doing It!	
to inspire girls with STEM. Introduce staff to quality, real-world, girl-friendly STEM curricula. Educate staff about the inquiry process and strategies for creating a learning culture that empowers both girls and boys. Encourage staff to use indoor and outdoor spaces creatively to foster girls' curiosity and exploration. Engage outside STEM experts as trainers for staff and to facilitate hands-on learning with girls.	Trying it	
	Not Yet	
Notes:		

12) Assess Results and Measure Impact ^{1,8,23,24,27} Ask questions and collect feedback from girls, families, staff, community partners, and others. Measure changes in STEM skills, knowledge, and attitudes among girls and families. Measure impact on staff development and community partnerships. Use results to inform program design and ongoing quality improvement. Share and publish results.	Doing It!	
	Trying it	
	Not Yet	
Notes:		



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