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
Design programs to be girl-centric and culturally responsive. Don’t assume that all girls are 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.

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Notes:

2) Create Safe Spaces and Sense of Belonging
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.

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Notes:

3) Start Early and Keep it Going
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.

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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.

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Notes:
5) **Elevate the Voices of Girls**

Invite girls to design, plan, and implement STEM education activities. Empower girls to share their opinions and make choices about their STEM learning. Provide opportunities for 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 communicate effectively and confidently, especially in traditionally male-dominated educational and work environments.

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**Notes:**

6) **Create Opportunities for Mastery**

Encourage girls to get out of their comfort zone, try ideas, and explore how things work. 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 confidence.

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**Notes:**

7) **Involve Families**

Create welcoming spaces for families to explore STEM with their daughters. Invite families 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 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.

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**Notes:**

8) **Engage Female Role Models and Mentors**

“You can't be what you can't see.” Create opportunities for girls to interact with female 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 beyond stereotypes, create a positive STEM identity, and imagine themselves as future scientists and experts in STEM careers.

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**NMOST Network**

[www.nmost.org/promising-practices](http://www.nmost.org/promising-practices)
### 9) Connect with Community Partners
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, government, and others to collaborate, coordinate, and grow STEM learning and career pathway opportunities for girls.

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### 10) Explore Career Pathways
Introduce girls to a wide variety of STEM career and education pathways. Open doors for 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.

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### 11) Provide Training and Resources for Afterschool Professionals
Equip OST staff with training, curricula, and materials that boost their ability and confidence 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.

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### 12) Assess Results and Measure Impact
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.

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[ NMOST.org/promising-practices ](https://www.nmmost.org/promising-practices)
REFERENCES:

5. Discovery Education: “5 Ways STEM Inspires Students to Change the World”, 2017
31. Marian Wright Edelman: activist and author