

Great Science for Girls



Evidence-Based Programs

*Four evidence-based programs have been selected to be part of the beginning of Great Science for Girls Extension Services: After-School Science PLUS, Girls at the Center, Girls Inc. Operation SMART, and Wonderwise 4-H. **These programs have been professionally evaluated and have shown positive outcomes in relation to girls and STEM.** New programs that meet the following criteria will be added throughout the project.*

Selection Criteria

- Supports development of/sustains a STEM identity
- Shows positive outcomes in relation to girls/underrepresented groups and STEM
- Supports cognitive engagement in STEM
- Uses inquiry-based, hands-on methodology
- Incorporates knowledge about girls' learning styles (cooperative learning groups, active learning, etc.)
- Involves students in decision-making, planning, problem-solving, risk-taking and reflection (higher-order thinking skills)
- Increases students' sense of self as learners
- Addresses the STEM standards through informal activities
- Has been piloted and field-tested
- Has a written curriculum or guide book that is user-friendly and accessible
- Uses affordable and easy to obtain materials
- Is adaptable for urban, suburban and/or rural settings
- Meets criteria for quality youth development as well as science content
- Adheres to NSTA safety guidelines
- Includes some level of parent involvement
- Shows awareness of other underrepresented groups.