



MILLION GIRLS MOONSHOT

Building an Engineering Mindset

Because the engineering mindset is at the heart of the Million Girls Moonshot Initiative and so critical now, we ask that all networks join our first virtual conversation to build their understanding of “engineering mindset” and how you can support partners in this STEM discipline.



Virtual Professional Development

For Partners and Networks

Looking for ways to create virtual professional development on developing an engineering mindset and STEM for partners and providers in your state? See resources below.

[What is Engineering? - TeachEngineering \(video\)](#)

Highlights real engineers, the work that they do and what it takes to be an engineer.

[What is Engineering? - LinkEngineers \(website\)](#)

Describes what engineering is and provides an overview of some important habits of minds of engineers.

[What STEM Mindset Is ... and Why Everyone Should Have One - Connected Science Learning](#)

This article describes how 21st century skills, growth mindset, and habits of mind all contribute to a STEM mindset.

[Blog: Teacher Responses that Foster a STEM Mindset](#)

This blog highlights the important role that teachers play in developing an engineering mindset in their students. How teachers respond to student questions can impact the way the students value themselves as learners.

Together at Home

Engineering Mindset Activities for Youth and Families

Are partners looking for STEM resources to share with youth and families? Share the following resources with programs so they can send to families.

[Think Like an Engineer](#)

This activity book of engineering challenges provides an introduction to the skills and process used by engineers. Activities are coded to indicate which of four features of engineering they focus on: Logic, creativity, math, experiment

[Thinking Like an Engineer](#)

Completing this short survey is a simple way for students to reflect on their own engineering mindset development.

[Student Activities](#)

[DIY Design Challenges - TGR Foundation](#)

This series of five DIY, family-friendly projects in English and Spanish use ordinary household items to keep kids engaged and still learning.

[EngineerGirl Try This! Design Challenge](#)

Hands-on activities using common household items. Challenges include: design a mini catapult, paper airplane, and sorting machine.

[Girlstart STEM at Home](#)

Created by Girlstart to empower families and communities in STEM. Find free Girlstart curriculum, STEM resources, effective messaging tips, collaboration opportunities. Join the Girlstart newsletter and receive updated information on other online resources.

Additional Virtual Professional Development

Connecting Programs

Are partners looking for additional virtual professional development opportunities to build their understanding of an engineering mindset and equity in STEM?

[National Girls Collaborative Project and SciGirls](#)

The SciGirls approach empowers educators to create a more gender equitable and culturally responsive learning environment. Learn about helpful research and the associated practices that are the foundation of the SciGirls Strategies.

[Making STEM Meaningful for Girls](#)

Recorded webinar and supporting materials



For professional development events, trainings, and webinars, visit ALACN.org:
"Million Girls Moonshot" page under "Resources"



ALACN is excited to be part of the Million Girls Moonshot, a collective impact initiative designed to increase diversity and equity in STEM. The Million Girls Moonshot will help close the persistent gender gap in STEM fields by engaging one million girls across the United States in STEM pursuits through high-quality, innovative afterschool learning opportunities over the next five years.