

PARENTS & TEACHERS

of girls who have an aptitude in

STEM

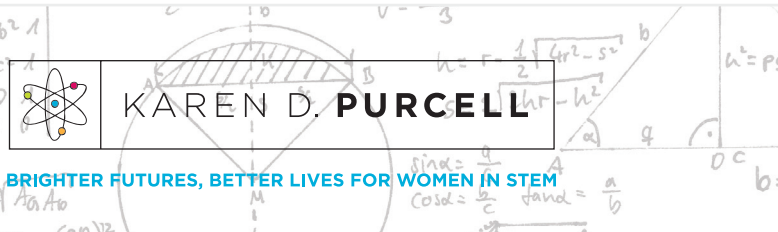
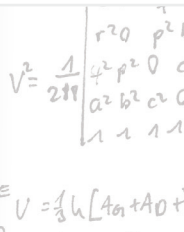
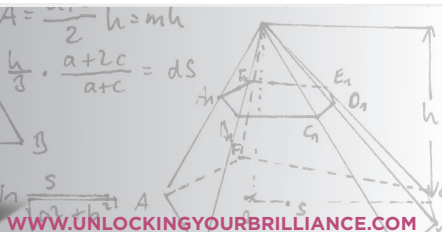
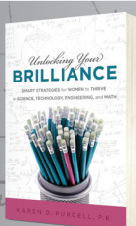
This exclusive download is for parents & teachers of girls that have an aptitude in science, technology, engineering, or math. **It will provide you with the top reasons why she should pursue a career in STEM, tips for fostering and developing a love for STEM in your daughter or student, and some information on avoiding a bias you may not be aware that you have.**

If your daughter or student has shown an aptitude in science, technology, engineering, or math you should do what you can to foster a love of her area of talent and encourage her to pursue deeper studies and a career in her field of choice. Below are the top five reasons why you should want her to pursue a career in STEM and some tips on how to set her on the right path.

Top 5 Reasons Why Your Daughter or Student Should Pursue a Career in STEM:

1. She has already shown you that she is good at this. When we excel in a subject, we love learning more and working in that subject area. Your daughter/student will find great joy and satisfaction in her career doing what she loves!
2. Earning potential, and therefore financial security can be very high in STEM careers. You can help your daughter/student create a comfortable, secure future for herself working in a STEM field.

3. The world of STEM needs more females to bring their perspective, inventiveness, and problem solving skills to the table. Her unique point of view can bring about new products and solutions to the world that will benefit all of us as individuals and help our country be a leader in the global marketplace. She can literally change the world!
4. STEM fields are among the fastest growing job segments in our nation's economy. Your daughter/student will have more choices available to her when entering the job market and far more growth opportunities long term as the fields develop and completely new positions and fields are created.
5. Your daughter/student will be challenged and expected to continue learning and growing in her STEM field. She will never know all there is to know. There is huge value to her development as a person in pursuing something that will require such mental exercise and focus.



 **KAREN D. PURCELL**
BRIGHTER FUTURES, BETTER LIVES FOR WOMEN IN STEM

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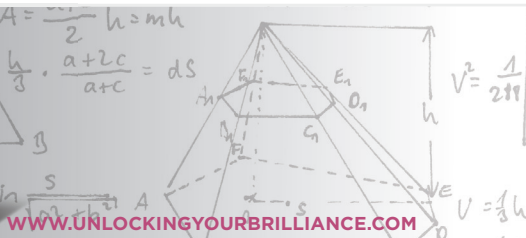
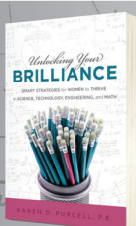
Things Parents & Teachers can do to Foster a Love of STEM:

- From an early age, develop curiosity in your child/student by asking questions about how things work and the world around us.
- Make family or class outings educational with visits to science centers and museums.
- Identify and discuss the science and math in everyday life when cooking together, taking walks in nature, and playing with toys.
- Do fun experiments using everyday objects. You can find tons of ideas online or in science at-home experiment books.
- As your daughter or student progresses through school, encourage her to take more difficult math and science courses and provide her the support necessary to succeed, including tutoring.


Don't Fall into the Bias Trap!

You may be surprised to realize that you have a deeply ingrained bias towards boys in math and science yourself, especially if you are a woman. A recent study showed that girls as young as six years old felt that boys were better at math than girls were. This bias is so entrenched in our culture that we often don't even recognize it in ourselves. When raising our daughters & students we need to be careful not to pass on a bias unintentionally. Try to be more aware of your thoughts when discussing math or science with your daughter or student so that any ingrained bias reveals itself. Don't limit your daughter or student by only buying her or guiding her towards toys, games, and puzzles that are "girly." Expose

her to machines, technology, and experimentation as much as you would a little boy. If she is interested, keep bringing these types of experiences to her. Doing these things will help you avoid the bias trap and may reveal your daughter's or student's inner engineer.



$$V = \frac{1}{3}h[A_1 + A_2 + \sqrt{A_1 A_2}]$$
$$V = \frac{1}{3}hA_1 \left[1 + \frac{A_2}{A_1} + \left(\frac{A_2}{A_1} \right)^2 \right]$$

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$\sin \alpha = \frac{a}{c}$
 $\cos \alpha = \frac{b}{c}$
 $\tan \alpha = \frac{a}{b}$

$y_1 = A_1 \sin(x + \dots)$