



STEM Enrichment

programs featuring
Lego Education® products

STEM programs for your Girl Scout Troop

Hello Troop Leaders,

Are you looking for a fun and effective way to introduce STEM to your girls? I offer a variety of 90 minute classes geared towards rising 2nd – 5th graders (Brownies & Juniors) that teach and reinforce STEM (science, technology, engineering, math) concepts using Legos! Your girls will learn by doing with my hands-on approach and since they work in pairs, they will learn cooperatively yet have ample opportunity to lead. Each class is designed to earn your girls' a STEM badge.

In my classes your girls will build, test and modify a cool Lego model that is designed to teach and reinforce STEM (Science, Technology, Engineering, Math) concepts. Two Troop Leaders are needed to assist. Lab sheets are provided to make predictions, record and analyze data, summarize findings and draw/create your own solution just like a real scientist!

Working in pairs, participants will explore elements of simple machines such as gears, pulleys, wheels, axles, levers and inclined planes. Elementary physics concepts such as forces and motion, friction, momentum, energy and efficiency will be covered. Engineering skills such as identifying goals, inputs, processes, outputs and feedback are included. Math skills such as making reasonable estimates, measurement, using fractions and decimals, sorting and classifying, collecting and handling data and visual discrimination are utilized. Identifying problems and designing solutions are inherent in the process. Students will use critical and logical thinking skills while working cooperatively and having fun!

All classes are taught by me personally. Classes can usually be held at your location or given advance notice, I can reserve space at my local church. Travel costs may increase fee slightly. Please ask about scholarship options for troop members with a financial hardship. I have some flexibility on pricing especially if your group books multiple classes.

To schedule your troops' class or series of classes, please contact me by phone or email at the address below. I welcome any questions and am genuinely looking forward to working with your girls.

Debbie Miller
770 938-8525 office
678 793-6627 cell
dmiller@STEMenrichment.com