

Fun and entertaining ways to inspire girls to stay involved with STEM

There are suggestions for all age groups, but make sure to review the content in advance to decide what's right for your student.



1. Dot

A curious and adventurous 8 year old named Dot, loves to use technology to answer her many questions.

2. Odd Squad

A high-tech agency run by kids who solve unusual assignments using problem solving, reasoning and lots of early elementary math.

3. Peg + Cat

A preschool show about Peg and her cat that introduces and teaches basic math skills.

4. White Rabbit Project

The MythBusters crew has fun exploring history with science.

5. Code Trip

Computer science students, who come from backgrounds underrepresented in the technology, industry embark on a journey that proves you don't have to fit the mold to make it in tech.

6. Xploration Outer Space

In addition to teaching young viewers a lot about the universe and how astronauts explore it, the show promotes STEM learning.

7. Annedroids

Anne, an 11 year old genius and kid-scientist, has invented and built her own amazing androids. She meets up with friends and they help solve scientific problems through real-life solutions.

8. Project Mc2

All female secret agents, recruited to join a spy organization, use their smarts in science and technology to complete their missions.

9. SciGirls

An animation and live-action show that features real girls putting science and engineering to work to answer questions and make discoveries.

10. FabLab

A news magazine focusing on discovering the cool ways science, technology and innovation are making the world a better place.

11. Girl Meets World, STEM Episode

In this episode, Riley gets annoyed when the girls are basically excluded from the latest science experiment.





Movies

1. Hidden Figures

The story of a team of African-American women mathematicians who served a vital role in NASA during the early years of the US space program. **Important female characters:** Real mathematicians at NASA: Katherine G. Johnson, Dorothy Vaughan, and Mary Jackson.

4. The Martian

An astronaut becomes stranded on Mars after his team assume that he is dead, he must rely on his ingenuity to find a way to signal to Earth that he is alive. **Important female character:** Melissa Lewis is the commander of the Ares 3 mission on Mars.

7. Contact

After years of searching, they find conclusive radio proof of intelligent aliens. **Important female character:** Dr. Ellie Arroway - a scientist who finds strong evidence of extraterrestrial life and is chosen to make first contact.

10. Solar Mamas

An inspiring film about a Bedouin mother from the Jordanian desert who attempts to light up her world when she gets the chance to go to college and train to become a solar engineer. **Important female character:** Rafea Anad.

2. Gravity

Two astronauts work together to survive after an accident which leaves them alone in space. **Important female character:** Dr. Ryan Stone, a brilliant medical engineer. In the movie, she's on her first shuttle mission to space along with veteran astronaut, Matt Kowalski. .

5. The Amazing Spiderman

After Peter Parker is bitten by a genetically altered spider, he gains newfound, spider-like powers and ventures out to solve the mystery of his parent's death. **Important female character:** Gwen Stacy is a classmate of Peter Parker's and she's a senior research officer at Oscorp Industries.

8. Prometheus

Following clues to the origin of mankind, a team find a structure on a distant moon, but soon find that they are not alone. **Important female character:** Elizabeth Shaw is an accomplished archaeologist with doctorates in paleontology, archaeology, and human mythology.

3. Avatar

In this move, a paraplegic marine is dispatched to the moon, Pandora, on a unique mission. **Important female character:** Dr. Grace Augustine is a scientist stationed on Pandora and she's in charge of a program which places human "pilots" in control of Avatars.

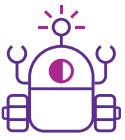
6. Interstellar

In this movie, a team of explorers travel through a wormhole in space in an attempt to ensure humanity's survival. **Important female character:** Dr. Brand is a brilliant NASA physicist who is working on plans to save mankind by transporting Earth's population to a new home.

9. Jane's Journey

A documentary film about Dr. Jane Goodall, world famous for her ongoing research about the chimpanzees of Bombe Stream National Park in Tanzania. **Important female character:** Jane Goodall.





Toys – under \$30

1. K'Nex Mighty Makers – Director's Cut Building Set

Kids can discover the art of filmmaking with this educational kit that lets kids assemble a stage, film camera, stand, and other accessories for creating stop-motion movies.

4. Learning Resources Gears! Gears! Gears!

This set of interlocking gears introduces children to sorting, grouping, counting, design and construction and provides opportunities for young children to experiment with simple mechanics and science.

7. 4M Kitchen Science Kit

Kids can perform six different science experiments using common kitchen ingredients.

2. Goldie Blox

Goldie Blox creates products that integrate storytelling and STEM principles into toys and kits that help girls build their skills while having fun.

5. Learning Resources Primary Science Lab Set

This lab set fosters a curiosity for science through tools and easy-to-follow, beginner science activities.

8. Educational Insights Design & Drill BrightWorks

Insert the translucent bolts, use the kid-friendly power drill to drill them in and girls can create one of the included patterns or a design of their own. Helps develop matching, patterning, problem-solving and construction skills.

3. Snap Circuits Jr. SC-100 Electronics Discovery Kit

This kit provides students with hands-on experience designing and building models of working electrical circuits for 101 do-it-yourself projects for kids.

6. 4M Tin Can Robot

This kit lets kids recycle a soda can and turn it into a motorized monster, a silly robot or any combination of the two.

9. Scientific Explorer Bubble Gum Factory Kit

Learn the science behind gum with eight different recipes or create one of your own concoctions.

10. SmartLab Toys All-Natural Soaps Science Kit

Use your creativity to mix up different soaps, colors and shapes. Each recipe teaches young scientists about the science behind these creations and offers lots of opportunities for exploration and play.

