Girls in STEM Book Collection

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This STEAM Kit book collection is designed to inspire young learners to explore science, technology, engineering, art, and math through engaging stories and hands-on activities. Featuring titles like Ada Twist's Big Project Book for Stellar Scientists, Girls Who Code series, and Piper Chen Sings, this collection promotes creativity, critical thinking, and problem-solving. Students will learn the basics of coding, experiment with scientific principles, and explore the intersection of music, technology, and self-expression. With a focus on collaboration and perseverance, the collection fosters an inclusive environment where students can connect with role models, discover their interests in STEM, and build essential skills for the future. Ideal for educators looking to enrich their classrooms with diverse, fun, and educational materials, this collection empowers students to experiment, innovate, and change the world.

Grade Level	**1st - 8th**
Reading Level	**Varied reading abilities: Beginner - Intermediate**

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Contents of Kit

- **Ada Twist's Big Project Book for Stellar Scientists by Andrea Beaty, illustrated by David Roberts -** This interactive project book is a perfect resource for encouraging young learners to explore science through fun, hands-on experiments. Inspired by the popular Ada Twist, Scientist series, it guides students through engaging STEM activities, encouraging curiosity and critical thinking. Ideal for fostering creativity and problem-solving skills in your classroom.

- **Piper Chen Sings by Phillipa Soo and Maris Pasquale Doran, illustrated by Qin Leng -** In this heartwarming story, Piper Chen discovers her love for music and the power of expressing herself through song. This book introduces children to the value of self-expression, teamwork, and confidence while encouraging them to pursue their passions. A great choice for teaching the importance of creativity and perseverance.

- **Girls Who Code by Reshma Saujani -** Learn to Code and Change the World: This book is an excellent introduction to coding for girls, offering a step-by-step guide to learn the basics of programming. With interactive activities and real-life stories of women in tech, it helps inspire the next generation of female tech innovators. Perfect for classrooms aiming to promote diversity and inclusion in STEM fields.

- **Girls Who Code: The Friendship Code #1 by Stacia Deutsch -** The first installment in the Girls Who Code series, this book introduces readers to a group of friends who form a coding club and embark on exciting coding projects together. It highlights the importance of collaboration, problem-solving, and friendship in STEM. A great way to inspire young readers to explore technology and work as a team.

- **Girls Who Code: Team BFF Race to the Finish #2 by Stacia Deutsch -** In this sequel, the coding club faces a challenging race that tests their skills and teamwork. Students will learn about coding concepts and the value of supporting each other through obstacles. A perfect book for promoting teamwork, resilience, and coding skills in a fun, engaging way.

- **Girls Who Code: Lights, Music, Code #3 by Jo Whittemore -** This book explores the intersection of coding, music, and light, as the girls of the coding club take on a project that combines technology with creativity. It's a great choice for inspiring students to see the connections between STEM fields and the arts, encouraging innovative thinking and cross-disciplinary learning.

- **Girls Who Code: Spotlight on Coding Club #4 by Michelle Schusterman -** This book follows the coding club as they face a new challenge that requires them to think critically and creatively. It focuses on leadership, collaboration, and the power of coding to make a difference in the world. A must-read for encouraging young learners to engage with STEM in a meaningful way and build essential problem-solving skills.

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Learning Extensions

STEAM Connections: Engineering - Math - Technology

Learning Objectives:

- Develop curiosity and creativity in STEM through hands-on activities and coding challenges.
- Introduce coding and problem-solving by using storytelling to engage students in technology and engineering.
- Promote teamwork and collaboration by showcasing how working together leads to success in STEM projects.
- Encourage self-expression and confidence through relatable role models in STEM and the arts.
- Inspire young learners to pursue STEM careers by breaking barriers and showcasing diverse role models in technology and science.

Career Connections:

- **Software Engineering and Coding -** Students are inspired to explore careers in coding and software development.
- **STEM Education and Mentorship -** Encourages students to consider careers as STEM educators or mentors.
- **Music Technology and Sound Engineering -** Connects coding with music and technology, opening doors to careers in audio engineering and multimedia.
- **Inventing and Entrepreneurship -** Inspires students to explore innovation and product development.
- **Data Science and Analytics -** Provides a foundation for future careers in data science and machine learning.

Essential Employability Skills:

- Digital Literacy
- Leadership
- Innovation
- Collaboration
- Problem Solving

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Resources and Accessibility

Safety Guidelines

- **Avoid Food and Drinks Near Books -** Encourage clean, dry reading areas to prevent spills, stains, or water damage.
- **Handle Books Gently -** Model how to turn pages carefully, avoid bending spines, and store books upright or flat.
- **Use Clean Hands -** Have students wash or sanitize hands before handling shared books to keep materials in good condition.
- **Designate a Safe Storage Spot -** Store books in a sturdy, dry, and clearly labeled bin or tote to protect them from wear and tear between uses.

Accessibility

- **Use Book Stands or Holders -** Provide angled book holders or clipboards to support independent reading for students with mobility or motor challenges.
- **Pair Audio with Print -** Use audiobooks or teacher-read recordings when available to support students with reading disabilities or visual impairments.
- **Incorporate Read-Alouds and Peer Reading -** Offer opportunities for shared or buddy reading to help students who benefit from auditory learning or support with decoding.
- **Offer Visual Aids and Discussion Prompts -** Supplement books with images, models, or key vocabulary cards to reinforce understanding and engagement.

Library Catalog

Library Resources

Feedback

QR to feedback survey