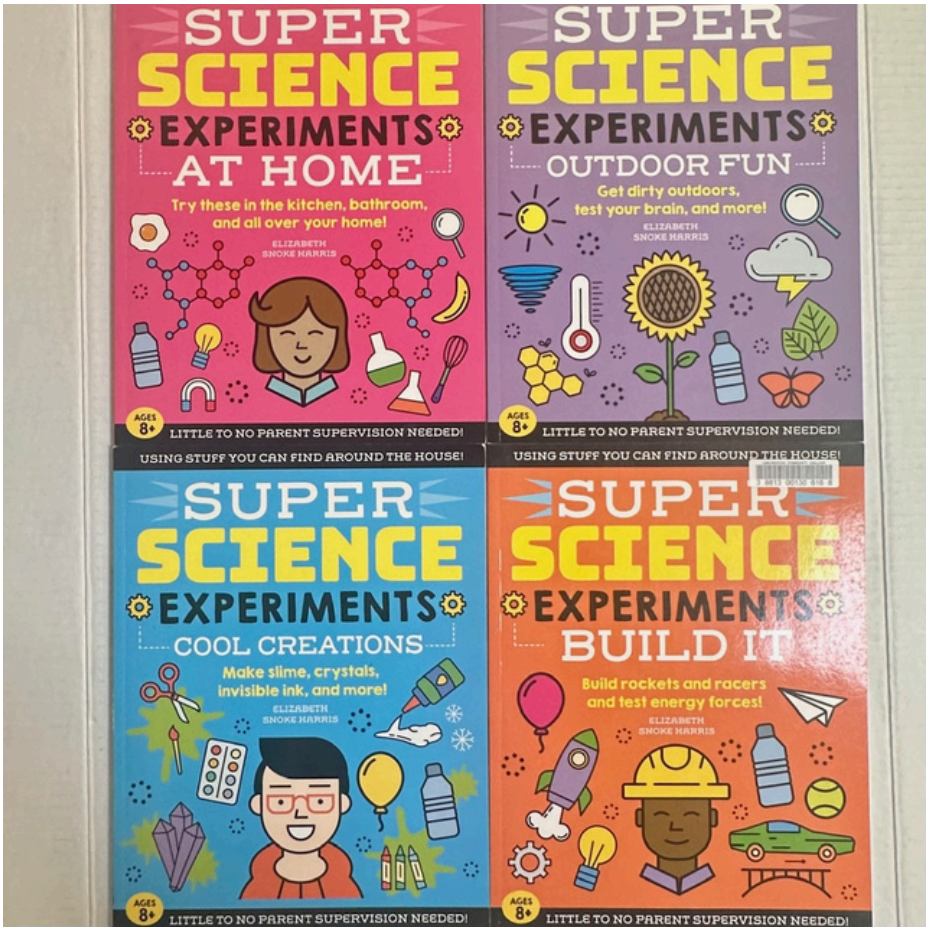
Super Science Book Collection Kit



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STEM-CTE HUB

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Super Science Book Collection

Get ready to explore, invent, and experiment—all on your own! This hands-on science kit is packed with fun, kid-friendly experiments that can be done with simple items you already have at home. No fancy tools, and no adult help required—just curiosity, creativity, and a dash of mess!

Perfect for curious kids and educators looking to integrate STEAM concepts into playful learning, this kit includes four books from the Super Science Experiments collection. Each book is filled with dozens of exciting projects that encourage scientific thinking, problem-solving, and imagination.

Grade Level

3rd - 7th

Reading Level

Beginner - Intermediate

Contents of Kit

- **Super Science Experiments, by Elizabeth Snoke Harris**
  - **At Home:** Try Taste bud tricks, blow up balloons with yeast, build water wheels, and more.
  - **Outdoor Fun:** Measure wind, make bee homes, trap clouds, and explore the wild world outside.
  - **Cool Creations:** Create colorful jewelry from milk, frost crystals, square bubbles, and other magical experiments.
  - **Build It:** Launch paper rockets, make a newspaper chair, and build working motors and compasses.

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Learning Extensions

STEAM Connections: Engineering - Math - Design

Learning Objectives:

- Understand basic principles of physical, life, and earth sciences through hands-on experimentation.
- Apply the scientific method: hypothesize, test, observe, and analyze results.
- Develop curiosity and confidence in exploring STEAM (Science, Technology, Engineering, Art, and Math) concepts independently.
- Foster creativity and innovation by using everyday materials for scientific exploration.
- Strengthen fine motor skills and hand-eye coordination through building and crafting.

Career Connections:

- **Scientist:** Exploring natural phenomena, conducting experiments, and analyzing outcomes.
- **Engineer:** Designing and building structures like paper rockets, motors, and water wheels.
- **Environmental Scientist:** Measuring wind/rainfall, creating ecosystems in a bottle, studying critters.
- **Inventor/Maker:** Creating unique solutions and imaginative projects from household materials.
- **Educator:** Using experiments to teach and inspire others in science learning environments.

Essential Employability Skills:

- Critical Thinking & Problem Solving
- Initiative & Self Direction
- Creativity & Innovation
- Communication
- Collaboration
- Technical Literacy

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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