



STEM in Action[®]

Modular STEM lessons to
supplement your curriculum



Grades
PreK-5

PreK-5

Modular lessons to seamlessly integrate STEM into your curriculum



STEM in Action® engages students in authentic, problem-based STEM lessons with real-world applications. This program puts the engineering design process at the heart of exploration—teaching the value of rethinking and supporting multiple solutions.



- Lessons are grouped into flexible blocks of time to easily integrate into teaching schedules
- Spanish versions of student and parent materials are available

STEM in Action® modules align with major science genres

	Life	Earth	Physical
PreK-K	Ron's Habitat Adventure	Pam and Ava's Mapping Adventure Little Footprint Exploration	Ron's Ramp Adventure Pam's Camping Adventure Sunny Sandbox Exploration Sidewalk Safety Exploration
1-2	Wild Feet Exploration Seed Rescue Exploration Coding Mouse Exploration*	Shrinking Shore Exploration Project Park Design	Shadow Box Theater Exploration Sound Bite Exploration Muddy Mats Exploration
3-5	Helping Hand Design Wildlife Corridors Challenge Food Deserts Challenge	Farmer Grady's Challenge Rainwater Runoff Challenge Coding & Mineral Collection Challenge	Squeaky Clean Magnets Challenge Digital Relay Challenge Solar House Design Challenge The Great Toy Design Challenge

*For grades K–2.



Supports SEL
hand2mind.com/sel

Developed in partnership with:



Learn More
hand2mind.com/stemination

PreK–K modules include:

- 4 teacher-directed Activity Cards and a Quick Start Card with helpful hints
- Story Poster
- 5 copies each of 4 different blackline masters
- All the materials needed for 24 students
- Spanish Add-On Bundle includes parent- and student-facing materials in Spanish

Fit STEM into your
PreK–K schedule

20 minutes each day for 4 days



Pam's Camping Adventure

Take a look inside...

4 activities,
each 20
minutes
per day

Simple and
easy-to-follow
instructions

Science, technology,
engineering, math, and
literacy—all in one program



7 PreK–K Modules Available
hand2mind.com/steminaction

Primary Grades 1–2 modules include:

- 6 Student Activity Books
- Teacher Guide
- All the materials needed for up to 30 students working in 6 groups
- Spanish Add-On Bundle includes parent- and student-facing materials in Spanish

Fit STEM into your
Grades 1–2 schedule

Up to 30 minutes each day for 5–8 days

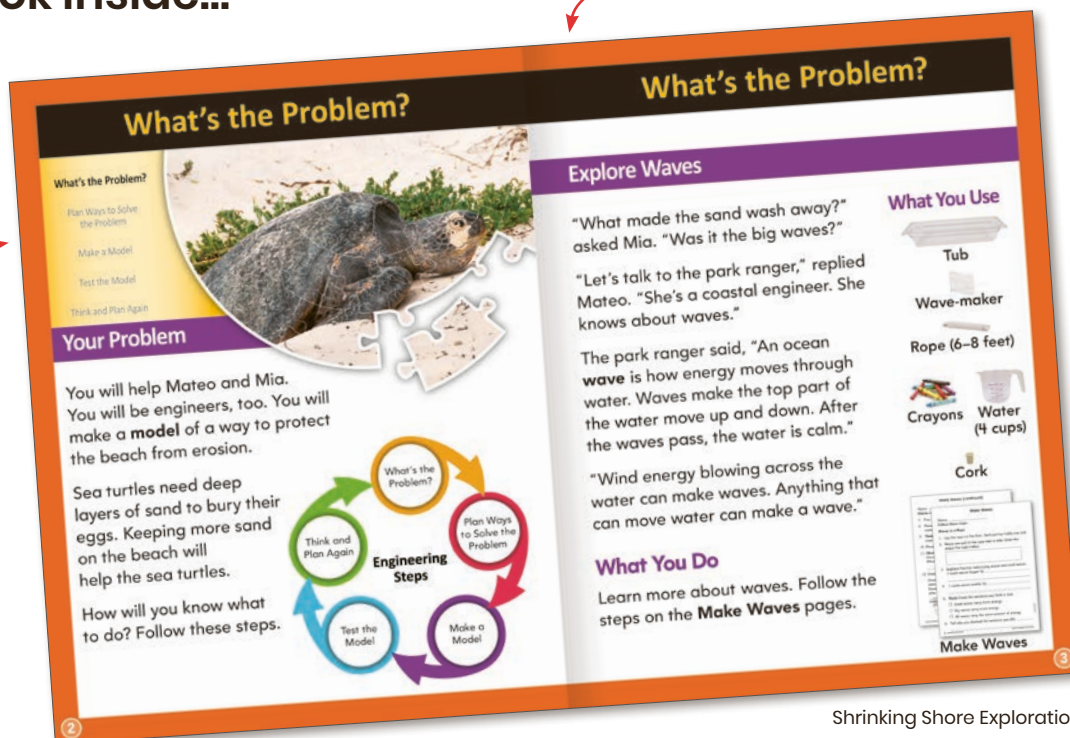


Shrinking Shore Exploration

Take a look inside...

*Age-appropriate text with
supportive visuals*

*5–8 lessons each,
30 minutes or
less per day*



Shrinking Shore Exploration

*Students use science, technology,
engineering skills, math, and
literacy to solve problems*

8 Primary Modules Available
hand2mind.com/stemination

Intermediate Grades 3–5 modules include:

- 6 Student Activity Books
- Teacher Guide
- All the materials needed for up to 30 students working in 6 groups
- Spanish Add-On Bundle includes parent- and student-facing materials in Spanish

Fit STEM into your
Grades 3–5 schedule

Up to 60 minutes each day for 5–8 days



Food Deserts Challenge

Take a look inside...



Food Deserts Challenge

Get curricular economy with science, technology, engineering & math, plus a literacy connection

5–8 lessons each, 60 minutes or less per day

Activities designed to accentuate the 3 dimensions of NGSS

10 Intermediate Modules Available
hand2mind.com/stemaction

7 PreK–K modules cover:

Forces Acting on Objects

- Ron's Ramp Adventure

Building Structure & Stability

- Pam's Camping Adventure

Earth Characteristics & Mapping

- Pam & Ava's Mapping Adventure

Living Things, Habitats & Survival

- Ron's Habitat Adventure

Sunlight Heating & Cooling

- Sunny Sandbox Exploration

Pushes & Pulls

- Sidewalk Safety Exploration

Pollution & Human Impact

- Little Footprint Exploration



8 Primary modules cover:

Sun & Earth

- Project Park Design

Basic Needs of Animals

- Coding Mouse Exploration

Animal Adaptations & Characteristics

- Wild Feet Exploration

Sound Waves & Vibrations

- Sound Bite Exploration

Light, Shadow & Illumination

- Shadow Box Theater Exploration

Material Properties

- Muddy Mats Exploration

Water & Erosion

- Shrinking Shore Exploration

Lifecycle, Seeds & Pollination

- Seed Rescue Exploration





10 Intermediate modules cover:

Minerals & Erosion

- Coding & Mineral Collection Challenge

Animal Adaptations & Biomimicry

- Helping Hand Design

Severe Weather & Hazards

- Farmer Grady's Challenge

Magnetic Force

- Squeaky Clean Magnets Challenge

Survival & Habitats

- Wildlife Corridors Challenge

Solar Energy

- Solar House Design Challenge

Waves, Codes & Circuits

- Digital Relay Challenge

Changes in Matter, Solids & Fluids

- The Great Toy Design Challenge

Plants & Cycling of Energy

- Food Deserts Challenge

Water on Earth & Pollution

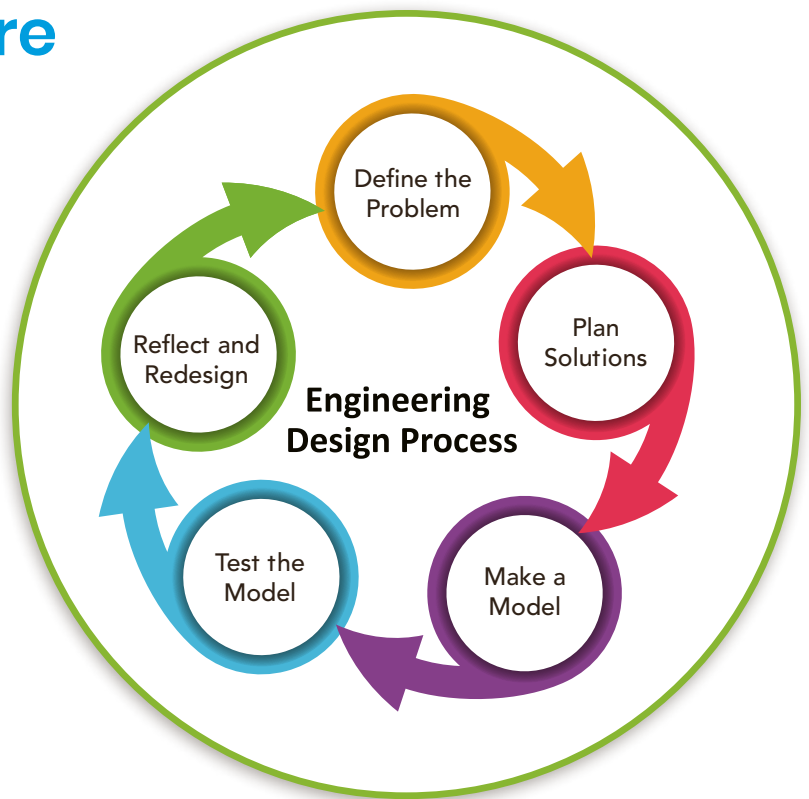
- Rainwater Runoff Design Challenge

Sample Lessons

hand2mind.com/stemaction

Engineer the future together with STEM in Action

- Put the **engineering design process** at the heart of exploration.
- **Seamlessly integrate** science, technology, engineering, math, and literacy in real-world problems.



A customer favorite...

“When I first saw the STEM in Action kits, I was very interested in the concept of providing a problem-based engineering design activity that used a simple engineering process. It also gave the teachers a way to ‘ease in’ to the idea of teaching engineering at the elementary level. It was very accessible for teachers and students and had intentional standards alignment.

“This product helps close a gap in elementary school. Teachers have provided anecdotal evidence of increased student interest, high student engagement, and student learning of science and engineering concepts, but also of improving their math and ELA skills through the problem-solving skills they are learning.”

*Shannon Heckelsmiller
K-12 Coordinator for Science
Tahoma School District, Washington*

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🌐 hand2mind.com



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Learn More at
hand2mind.com/steminaction