

Educational Kits available for check out from the Warren County Extension Office

Kit Topic	Brief Description
<p>STEM-Lit to Go! (each lesson is in a separate small kit)</p>  <p>Best for: K-3rd grade</p>	<p>These hands-on lessons combine science, technology, engineering and math concepts with literature. The curriculum includes 12 lessons designed for students in kindergarten through third grade and incorporates Next Generation Science Standards and Common Core literacy standards. An important feature of the program is STEM-based activities that encourage learning through play. Science concepts are first introduced to students by reading a fiction book. Students then experiment with the concept through a hands-on activity or play.</p> <ul style="list-style-type: none"> • STEM-Lit to Go! #1 - Bubbles: Investigate bubbles, their shape, and the inquiry process. • STEM-Lit to Go! #2 - Curious Candy: Investigate the engineering process by designing a candy machine to deliver chocolate. • STEM-Lit to Go! #3 - Healthy Hearts: Investigate how the heart works and ways to keep it healthy. • STEM-Lit to Go! #4 - Inventor's Hat: Investigate the invention process; design & create a new or improved invention. • STEM-Lit to Go! #5 - Jumping Beans: Investigate Mexican Jumping Beans and what causes them to jump. • STEM-Lit to Go! #6 - Lots of Light: Investigate the properties of light and the role of cause and effect. • STEM-Lit to Go! #7 - Popping Popcorn: Investigate popcorn; plan and conduct popcorn investigations. • STEM-Lit to Go! #8 - Roller Coasters: Investigate force and motion using model roller coasters; plan & conduct force and motion investigations. • STEM-Lit to Go! #9 - Sunny Sunshine: Investigate UV rays and ways to be safe in the sun. • STEM-Lit to Go! #10- Super Sled: Investigate friction & design a super sled. • STEM-Lit to Go! #11 - Terrific Trees: Investigate trees and discuss their importance in our lives. • STEM-Lit to Go! #12 - Wonderful Wind: Investigate the power of wind; plan and conduct wind experiments.
<p>Art-Lit TO GO!</p>  <p>Best for: K-3rd grade</p>	<p>Art-Lit to Go! is an innovative Iowa 4-H program that supports the development of art and literacy skills for K-3 children. This informal education program is designed to teach children a basic understanding of the foundational art elements of line, shape, color, form, and texture through integrated art-literacy activities</p> <ul style="list-style-type: none"> • Art-Lit TO GO! #1: Mistake to Masterpiece: Children learn that mistakes are a part of the creative process and that they can grow and learn from mistakes • Art-Lit TO GO! #2: Lines on Signs: Children learn about lines as they work together to plan, design, and create a road mural • Art-Lit TO GO! #3: Shape-O-Saurus: Children learn about shapes and use shapes to create artwork on stones • Art-Lit TO GO! #4: Color Creation: Children learn about color theory by identifying primary and secondary colors through color mixing activities • Art-Lit TO GO! #5: Stunning Sculptures: Children learn about sculpture and create 3-D works of art by shaping and combining materials • Art-Lit TO GO! #6: Touch- and- Feel Texture: Children learn about texture through exploring textures and creating a touch and feel book • Art-Lit TO GO! #7: Lots of Layers: Children learn Collages by creating a paper pizza

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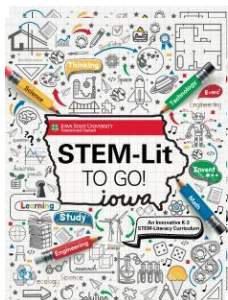
Pint Size Science (each lesson is in a separate small kit)



Best for: K-3rd grade

- **Pint Size Science #1: Colorful Chemistry:** Students will learn about the different stages of matter and how they change between stages. They will learn these through hands on experiments and fun learning opportunities.
- **Pint Size Science #2: Tiny Tinkerers:** Youth will learn about how things can be seen in the dark, how sound is made and how tools can be used to make things that we need.
- **Pint Size Science #3: Classifying Creatures:** Youth will learn what characteristics all humans have, what similarities and differences do animals have that live in the same habitat, and how animals survive where they live.
- **Pint Size Science #4: Exploring Engineering:** Youth will explore what types of tools engineers use, how you can use failure to promote success, and what the design cycle is and how it can affect an engineer's work.
- **Pint Size Science #5: Fascinating Farmers:** Youth will learn about environmental health, how it affects human health, nutrients and life cycle, what plants need to grow and what tools farmers use to maintain and harvest crops.
- **Pint Size Science #6: Mini Meteorologist:** Youth will learn about seasons, weather patterns and how it affects humans and weather predictions.
- **Pint Size Science #7: Push and Pull:** Youth will learn that an object can affect other objects when in motion, a change in motion can affect the speed and/or direction of an object and that push and pull are forces.
- **Pint Size Science #8: Homes and Habitats:** Youth will learn that animals have basic needs to survive and that animal homes are reflective of the environmental conditions where they live.

STEM-Lit to Go! Iowa (each lesson is in a separate small kit)



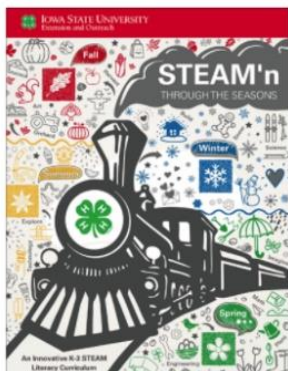
Best for: K-3rd grade

STEM-Lit to Go! Iowa is an innovative program that supports the development of STEM and literacy skills for K-3 youth. This program utilizes a unique instructional framework that integrates inquiry-based STEM activities and carefully selected children's literature. Through a variety of engaging topics including space, inventions and popcorn, children explore key STEM concepts such as the engineering design process and conducting investigations. Each lesson provides youth with a hands-on STEM experience and multiple opportunities to read, write, speak and listen about that experience. This exciting research-based program is designed to support the Next Generation Science Standards and the Common Core English Language Arts Standards.

- **STEM-Lit to Go! Iowa #1: A Chair for Bear-** Work with the engineering design process to build a chair for Goldilocks. Introduce the fairytale genre & explore text-based drama.
- **STEM-Lit to Go! Iowa #2: Blast Off-** Learn about being an astronaut & participate in space themed learning activities.
- **STEM-Lit to Go! Iowa #3: Code Across Iowa –** Practice coding and problem-solving skills while learning about Iowa.
- **STEM-Lit to Go! Iowa #4: Hour at the Fair –** Participate in a variety of STEM-literacy activities while learning more about the Iowa State Fair.
- **STEM-Lit to Go! Iowa #5: Marvelous Marshmallows –** Learn about an Iowa connection to a famous marshmallow treat, conduct marshmallow investigations, and launch them at a target while learning STEM process skills.
- **STEM-Lit to Go! Iowa #6: Munching Mysteries –** Learn about the mystery and biography genres, how to solve mysteries, and use the Engineering Design Process.
- **STEM-Lit to Go! Iowa #7: Scream for Ice Cream –** Explore chemistry and the states of matter through investigations that end in a delicious, sweet treat – ice cream!
- **STEM-Lit to Go! Iowa #8: Sound All Around –** Learn about the elements of music such as rhythm and pitch, how sound is produced, & designing instruments.
- **STEM-Lit to Go! Iowa #9: Super Shapes –** Learn about shapes and explore shapes in our world.
- **STEM-Lit to Go! Iowa #10: Take a Chance –** Participate in various games of chance to learn more about math concepts.
- **STEM-Lit to Go! Iowa #11: Tricky Towers –** Participate in the engineering design process to learn about structures and STEM professions.
- **STEM-Lit to Go! Iowa #12: Wonders of Nature –** Learn about natural resources and the importance of environmental conservation.

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STEAM'n Through the Seasons
(each lesson is in a separate small kit)



Best for: K-3rd grade

STEAM'n Through the Seasons is an innovative Iowa 4-H program that supports the development of STEAM and literacy skills for K-3 children. This informal education program is designed to teach children fundamental STEM and art concepts through integrated STEAM-literacy activities that focus on a seasonal topic.

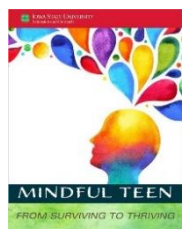
- Children will use STEM thinking skills by pursuing questions, investigating ideas, and forming and testing theories about the world around them.
- Children will explore a variety of tools, media, and art techniques.
- Children will practice reading, writing, speaking, and listening skills
- **STEAM'n Through the Seasons # 1: Apple'licious-** Children learn about the life cycle of the apple tree and the many uses of apples
- **STEAM'n Through the Seasons # 2: Pumpkin Exploration-** Children will learn about the life cycle of a pumpkin
- **STEAM'n Through the Seasons # 3: Scurrying Squirrels-** Children learn how squirrels prepare for winter and use the engineering design process to design and build a contraption to move acorns
- **STEAM'n Through the Seasons # 4: Gingerbread Time-** Children will use the engineering design process to build a gingerbread house
- **STEAM'n Through the Seasons # 5: Snow Spectacular-** Children learn about blizzards and explore how meteorologists use tools to forecast weather and help people prepare for severe weather
- **STEAM'n Through the Seasons # 6: Gifts from The Heart-** Children learn the importance of giving to others by measuring and creating a delicious gift in a jar
- **STEAM'n Through the Seasons # 7: Traptastic-** Children learn about the engineering design process and dimension creation in art
- **STEAM'n Through the Seasons # 8: Bitty Bunnies-** Children learn about rabbits and explore how animals help their babies survive
- **STEAM'n Through the Seasons # 9: Sensational Seeds-** Children learn the parts of a seed and what they need to grow
- **STEAM'n Through the Seasons # 10: Dirt-N-Worms:** Children will learn about worms and their four main parts
- **STEAM'n Through the Seasons # 11: Summer Celebrations-** Children explore educational while learning about fun things that happen during summer celebrations
- **STEAM'n Through the Seasons # 12: Make a Splash-** Children will learn how to test and improve their designs for a water transportation device

Rocket Launchers
Best for: Any Age



Youth get the chance to be their own engineering and design their own rocket! They get to follow the engineering design process to reinvent and manipulate their rockets after initial launch

Mindful Teen Series
(Must be led in a group by Extension Staff)



Best for: 7-12th grade

The program can be implemented both in-person or virtually, empowering youth and equipping them with practical strategies and mindful practices to manage stress, difficult emotions, and improve and support their overall well-being, relationships, and performance in school, sports, the arts, and other daily activities. An interactive journal also accompanies

- **Lesson 1:** Introduction to Mindfulness and Stress
- **Lesson 2:** Breathing – The Heart of Mindfulness and Loving-Kindness
- **Lesson 3:** Embracing the Now and Gratitude as Mindful Practice
- **Lesson 4:** Everyday Mindfulness –Freedom Wherever You Are and Mindful Movement
- **Lesson 5:** Building Mindful Relationships and The Power of Mindfulness in Sports & Arts
- **Lesson 6:** Caring for Your Body, Self-Care, and Creating Our Mindfulness and Resilience Action Plan

Hex Bugs (20)

Best for: Any Age



Hex bugs are activity that allows youth to build courses and challenges to get their bug from one side of the course to the other. This kit allows for youth to explore their own creativity while working independently or within a team atmosphere. The works will with youth of all ages and is a great opportunity for older youth to be a leader of a team to assist younger youth.



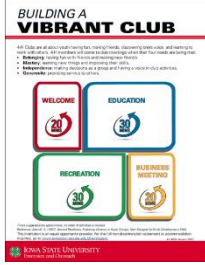



BeeBots (6)

Best for: K-3rd



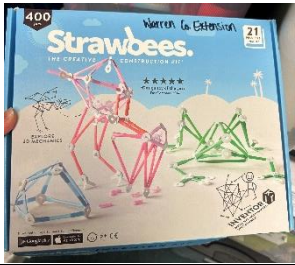

Bee Bots are an exciting programmable robot for young children. Decorated as a bee, Bee Bots are colorful and durable for young children. We have 6 Bee Bots for you to check out as well as the lessons to go with them! We also have Bee Bots mats that you can check out too.

If you are needing more BeeBots, please let me know. I can reserve them from other counties!

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<p>Kids In the Kitchen (Must be led in a group by Extension Staff) Best for: K-3rd grade</p> 	<p>Youth will learn the importance of healthy eating and physical activity while making and eating healthy, child-friendly recipes. Lesson topics include food safety, basic kitchen safety, the five food groups, and the importance of physical activity. Along with the curriculum, this kit includes a “portable kitchen” with all the supplies needed for making the nutritious and delicious recipes in the lessons.</p> <p>We do have kitchen utensils and supplies for use with any kitchen activity. (It does not have to be used with the Kids in the Kitchen Curriculum). If you are doing any baking or cooking lesson, feel free to reserve this kit.</p>
<p>Building Blocks of Leadership</p> <p>Best for: 6-8 Grade</p> 	<p>Building Blocks of Leadership is a series of mini-lessons geared towards developing leadership skills in youth. These lessons are 20-30 minutes in length and can be incorporated into existing programs such as day camps, 4-H meetings, program area workshops, and afterschool programming. Designed for grades 6-8, Building Blocks of Leadership can be adapted to meet the needs of a variety of youth audiences, settings, and experience levels of youth.</p>
<p>Sewing Machines (3)</p>	<p>We have 3 sewing machines available to check out. We also have an ironing board, iron, thread, needles, and bobbins. There is also random fabric that you are more than welcome to look through and use.</p>
<p>4-H On the Go Lessons</p>	<p>These are short activities that can be completed with a small supply list of household items. We would highly recommend these. https://store.extension.iastate.edu/Topic/Member-Resources/On-the-Go-Lessons?S=0&A=0&F=0</p>
<p>Vibrant Clubs Lessons 4th-12th grade</p> 	<p>4-H Clubs are all about youth having fun, making friends, discovering one’s voice, and learning to work with others. 4-H members will come to club meetings when their four needs are being met: belonging, mastery, independence, and generosity.</p> <p>This publication helps club leaders build a vibrant club experience for their members using a building-block concept. The elements of a vibrant club (welcome, recreation, education, and a business meeting) all contribute to one or more of the basic needs.</p> <p>https://store.extension.iastate.edu/Topic/Volunteer-Resources/Vibrant-Clubs-Series?S=0&A=0&F=0 Visit this page to learn more about the vibrant club model and get sample meeting templates.</p>
<p>Ricochet 4th-8th grade</p>  <p>This must be lead by trained Extension staff</p>	<p><i>Ricochet: An Extreme Leadership Adventure</i> is a middle school leadership initiative created and sponsored by Iowa State University Extension and Outreach and Iowa 4-H. To Ricochet means to move round with a lot of energy, and be unpredictable - sort of like middle school youth. They bounce from one thing to the next trying on different roles as they find their place in the world.</p> <p>Something else you can’t predict: when opportunities for youth leadership will arise, but you can help prepare youth to become leaders. Help them be ready to accept the leadership opportunities that come their way.</p> <p>Ricochet uses adventure and experience to bring about learning. Kids will learn by doing things themselves. You can help them build their leadership skills, as they get involved in a REAL project that their community needs.</p>
<p>Beef Learning Lab Kit</p> 	<p>The Beef Learning Lab Kit is your answer for species-specific, hands-on, durable materials that make learning tactile and fun. It includes materials and suggestions for activities that cover anatomy, breeds, conformation, meat cuts, medicine labels and inserts, and animal handling. Use this and other Learning Lab Kits for teaching and evaluating knowledge of livestock and companion animals.</p>
<p>Sheep Learning Lab Kit</p> 	<p>The Sheep Learning Lab Kit is your answer for species-specific, hands-on, durable materials that make learning tactile and fun. It includes materials and suggestions for activities that cover anatomy, breeds, conformation, meat cuts, medicine labels and inserts, animal handling, and common health problems. Use this and other Learning Lab Kits for teaching and evaluating knowledge of livestock and companion animals.</p>

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<p>Beef Bones ID</p> 	<p>Includes replica beef bones and worksheets. Youth work to identify what each bone is. Includes information on the bones and the cuts of meat that are associated with each. Perfect introductory meat science lesson for all 4-H ages. Can be built upon to expand lesson.</p>
<p>Makey Makey</p> 	<p>Design your own controller with everyday materials like playdough or graphite pencils. The world is full of conductive objects & materials. Make musical circuits with liquids, fruits, and low cost office supplies. Using foil, pennies, and paper clips, invent sensors just like scientists do.</p> <p>We have ten (10) makey makey kits available.</p> <p>https://makeymakey.com/ Visit their website for more resources and ideas for use.</p>
<p>Strawbees</p> 	<p>Strawbees is a creative construction kit that makes it possible to connect both straws and cardboard to each other to build anything from a tiny pixie to the biggest robot you dare to imagine. Creating with Strawbees is not only the best way to build and tell stories but also the most fun way to learn basic mechanics and physics. It's a toy that is created for generations to play, problem solve and invent together. So put on your thinking hats and start building! This box contains 250 Strawbees, as well as 150 extra rigid and colorful straws.</p> <p>We have two (2) boxes available.</p>
<p>Quilting Introduction Curriculum</p>	<p>https://www.extension.iastate.edu/warren/files/documents/Introduction%20to%20Quilting.pdf</p> <p>Introduction to quilting curriculum. Youth will complete a pillow. Please reach out to the Extension Office for possible supplies/funding. We have three (3) sewing machines in office but have access to more if needed.</p>
<p>Griddles</p> 	<p>We have two (2) 16x10inch griddles available for check-out.</p>
<p>Jenga Yard Game, Capture the flag set</p>	<p>If you are having a celebration or a chance to get outside and play games, we have a Jenga yard game available. Warning: this kit is very heavy!!! Capture the flag kit is also available for some outside recreation.</p>
<p>General Supplies</p>	<p>If you are need of popsicle sticks, yarn, cotton balls or other general supplies please reach out to our office. We can let you know what we have on hand for you to utilize. Printing services are also free upon request.</p>
<p style="text-align: center;">For more educational resources go to: https://store.extension.iastate.edu/</p>	

Please click on this link to complete the Google Form to reserve your kit:

<https://forms.gle/5WYgdcZWgPkS2Jyu5>