

## 2022-2023 STEM Scale-Up Programs

Program	Program Description	Grade Levels	In School	Out of School
<b>SoapyCilantro: Introduction to Precision Health and Agriculture</b>	Engage students in Precision Medicine by isolating and analyzing their own DNA and connecting genomics to human health and agriculture.	6-12	X	X
<b>Robot Investigations with Finch Robot</b>	Introduce learners of all ages and skill levels to physical computing with a Finch Robot.	4-12	X	X
<b>Computational Thinking in Action with Micro:bit</b>	Help students understand the power of computer science and how things work by seeing their projects come to life with a micro:bit microcontroller.	3-12	X	X
<b>Iowa Leadership in Engineering Design</b>	Prepare students for STEM careers through engineering design activities that are unique to each classroom, curriculum, school and community.	K-12	X	X
<b>Nepri: Real World Connections to STEM Career Professionals</b>	Connect with industry professionals from various STEM pathways to virtually interact with students to bring abstract lessons to life.	K-12	X	X
<b>Ioponics</b>	Students engage with living organisms for agricultural and scientific purposes, independent of an outdoor environment.	PreK-12	X	X
<b>Project GUTS</b>	Prepare students for future endeavors in STEM by creating opportunities to build scientific inquiry skills and use technology to explore real-world problems.	6-9	X	X
<b>Project Lead The Way: Energy and Environment</b>	Encourage students to explore computer science, engineering and biomedical science.	6-8	X	X
<b>Ready, Set, Drone!</b>	Explore STEM learning and drone careers through this multi-subject curriculum that introduces learners to tomorrow's drone-filled future.	4-8	X	X
<b>Daily Math Fluency</b>	Help develop efficiency, flexibility and accuracy in your students' grasp of basic math facts.	K-8	X	X
<b>Storytime STEM-packs: STEM + Computer Science</b>	Educational innovation designed to connect children's literature with STEM and computer science.	PreK-2	X	X
<b>Tiny Techies</b>	Prepare students to be creators and learn about computer science cross-curricularly and without the use of a computer.	PreK-2	X	X
<b>Waterworks</b>	Develop a framework that capitalizes on the reciprocal relationship of STEM and literacy learning through moving liquids.	PreK-2	X	X

For more information about each program, visit <https://iowastem.org/scale-up/menu>.