

STEM Cart: K-12+ Schoolwide STEM Solution

GRADE LEVELS:
K-12

**EDUCATIONAL
SETTING:**
In and Out of School

Award Provides:

- One TeacherGeek STEM Cart with curriculum, tools, and 18,000+ components
- One 6-hour PD session with \$120 stipend

Materials List:
[TeacherGeek.com/STEM-Cart-Components](https://www.teachergeek.com/STEM-Cart-Components)

Curriculum:
[TeacherGeek.com/learn](https://www.teachergeek.com/learn)

**Additional Cost(s) to
Awardee in 2023-2024:**
None

**Approximate
Sustainability Cost
After Award Period:**
Well under \$200/year
for most schools

2023-2024 STEM Scale-Up Program Summary:

Roll it into your classroom, lab, or library for the ultimate STEM/STEAM/Maker solution. With over 40+ STEM projects and almost every TeacherGeek component we manufacture, this cart can easily support hundreds of kids. Each cart includes curriculum and a pallet of replacement supplies (way more supplies than you see in the cart, over 18,000 components in total!!) plus sturdy tools to create almost any project.

Founded in the classroom, TeacherGeek has grown to engage hundreds of thousands of kids in real, hands-on STEM. Why? TeacherGeek gets kids *actually* engineering: building, experimenting, and redesigning; learning from their successes and failures; and growing their understanding with their designs.

TeacherGeek curriculum is designed by real teachers, standards-aligned, free, and always growing. Choose from over 60 engineering challenges, then optionally customize activities by adding modules (e.g. labs, extra challenges, engineering notebooks), or immerse kids in the activity with fun scenario videos.

Documents are uniquely graphical, self-directed, and designed to support students of all abilities and learning profiles. They're also available as PDF or MS Word documents, ready-to-go for those new to STEM while being editable for those who want to make them their own!

New STEM Cart activities are constantly being added to the TeacherGeek website. Keep stopping back to uncover new projects, labs, and resources to get your kids innovating!

Requirements to Implement the Program:

- 1.) Educators must attend 1 day in-person training.
- 2.) Educator(s) must participate in the STEM Council Scale-Up Educator Survey.
- 3.) Recommend 1 Cart per STEM teacher or max of 3 classroom teachers sharing one Cart.



Website:

[TeacherGeek.com/STEM M-Cart](http://TeacherGeek.com/STEM-Cart)

Social Media:

 @GetTeacherGeek
 TheTeacherGeek

Program Video:

vimeo.com/413393130

Informational

Webinars:

Jan 18, 4:00-4:30 PM

Register at:

TeacherGeek.com/lowa-STEM-1

Jan 31, 4:00-4:30 PM

Register at:

TeacherGeek.com/lowa-STEM-2

Feb 23, 4:00-4:30 PM

Register at:

TeacherGeek.com/lowa-STEM-3

Iowa Standards Alignment:

21st Century Skills 21.ES.4 – Demonstrate initiative, creativity, self-direction, and entrepreneurial thinking to produce successful outcomes.

NGSS 3-5-ETS1-2 – Generate and compare multiple solutions to a problem based on how well they meet the criteria and constraints of the design problem.

NGSS MS-ETS1-4. – Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

Professional Development:

Duration: 6 hours of HANDS-ON FUN + \$120 stipend

Date(s): Workshops will occur between July 17 and August 15

Location: Up to 10 total professional development workshops in 6 locations (Northeast, North Central, Northwest, Southeast, South Central, and Southwest STEM Regions)

Photos:



STEM Scale-Up Program Application Link: www.iowaSTEM.org/Scale-Up-Application