

## Build a Passion for STEM in Your Students

FlinnSTEM™ is a standards-aligned STEM curricula for grades 4-8 that uses an engaging hands-on approach to guide students to explore new science concepts, connect to real-world experiences, and discover engineering design and scientific inquiry. Robust professional development is embedded in the program, giving schools and districts everything they need to teach STEM.

### Powered by IMSA Fusion

The award-winning Illinois Mathematics and Science Academy (IMSA), a pioneer in STEM education, conceived, researched and developed this program as a balanced fusion of problem and evidenced-based reasoning with numerous opportunities for students to experiment, challenge, design and collaborate.

**Developed to serve after-school enrichment, FlinnSTEM remains an effective for after-school program.**

### Inquiry-Based Modules With Hands-On Materials

FlinnSTEM includes 15 modules containing all the materials need to engage students in rich, inquiry-based, hands-on activities. Each module provides up to 32 hours of instructions and kits that include materials and reproducible content for students, detailed digital teacher content and professional learning videos for classroom activities. Some single units from modules are self-contained (four hours of instruction) and can be used to try FlinnSTEM.

### Built-in Professional Development

Research suggests that teachers need more opportunities to gain content knowledge. FlinnSTEM delivers with robust teacher professional development thoughtfully embedded into a student-centered STEM curriculum program. Teachers are provided with great digital content, including background information, suggested inquiry approaches, point-of-use professional development videos, writable student activities and debrief questions.



### Use Both Inside and Outside the Classroom

FlinnSTEM is adaptable to fit any learning environment. In the regular classroom, the program can be embedded into daily instruction and existing curriculum. FlinnSTEM is also perfect for outside the classroom, like after-school programs and STEM-focused clubs. The units also provide content knowledge and hands-on experiences for student-driven projects in makerspace.

♥ "What more could you ask for? With FlinnSTEM, the work is already done for you. The training is top of the line. It involves standards that are low and high for students, and engages them in ways that they will not only learn the material but remember it."

### KAREN HENDERSON, 8TH GRADE TEACHER

SIMMONS MIDDLE SCHOOL  
EAST AURORA, IL

♥ "We wanted to step "out-of-the-box" to show students all the math and science that is part of their daily lives. FlinnSTEM does that in an engaging way."

### COLE CIANGI BACHTELL, TEACHER

DISTRICT 101, LAIDLAW ELEMENTARY SCHOOL  
WESTERN SPRINGS, IL

## FUNDING OPTIONS

FlinnSTEM can be funded by:

- **STEM federal funding sources, including:**
  - 21st Century Community Learning Center Grants for after-school and summer programs
  - Title II grants for teacher quality to train STEM teachers
  - Title IV-A—Student Support and Academic Enrichment Grants

Learn more at [www.flinnstem.com](http://www.flinnstem.com)

# FlinnSTEM's 15 modules show students how science, math and technology are part of their daily lives.

## Grades 4-5



**Engineering: Design and Build**—Student teams conceptualize, build, test and acquire knowledge while becoming familiar with the engineering design process.



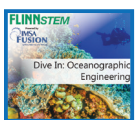
**Fighting Fire with STEM**—Students become cadets of Fire Academy Rescue and embark upon an exploration of the concept of fire, tactics, forensics and innovations in fire fighting and rescue.



**Organized Sound: STEM in Music**—Students explore the physics and mathematics behind sound, and discover how music relates to sound waves and the development of instrumentation and technology.



**Climate Change: The Future is Now**—Students participate in a variety of investigations to help establish an understanding of climate science literacy.



**Dive In: Oceanographic Engineering**—Students engage in identifying problems, designing, testing, and evaluating potential solutions pertinent to the ocean.



**You be the Judge**—Students are introduced to basic principles and applications of chemistry in order to create and carry out meaningful investigations and lab experiences.



**What's the Story, Data?**—Students get a glimpse of the emerging field of data science, including how technologies influence the identification and use of data, how it is analyzed, how this has changed how we interact with the world and more!



**Synthetic Scorecard: Building the Future of Biology**—Students combine biology, engineering, and technology in order to develop an awareness of the discipline of synthetic biology.

## Grades 6-8



**Taking Flight: Investigating the Aviation Industry**—Students immerse in various facets of aviation, including aircraft design, airport structure and runway design, air traffic control and more!



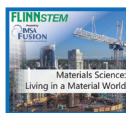
**Mars: Manifest Destiny**—Students consider the enormous challenge of planning a permanent, sustainable colony on Mars by exploring gravity, orbital mechanics and more!



**Biological Toolkit**—Students explore the basics of our genetic code, DNA - debating the ethical and social implications of this field, investigating topics at the forefront of biology.



**Medieval: STEM Through the Middle Ages**—Students explore the STEM that was developed, altered and utilized during medieval times and how that helped lay the foundation for today.



**Materials Science: Living in a Material World**—Students embark on an 8,000-year journey to see how Materials Science has shaped the course of human civilization.



**Secret Communications: Sharing Concealed Messages**—Students interact with examples of various encryption methods and the opportunity to get into the mind of a code writer.



**Out of the Silo: Agronomic STEM**—Students engage in the interplay of STEM with the growing of plants for commercial use, particularly food.



STEMWORKS  
CERTIFIED

{CHANGE THE  
EQUATION}

**FLINN  
SCIENTIFIC**

LEARN MORE AT  
[www.flinnstem.com](http://www.flinnstem.com)



Get a **FREE** demo, trial, or  
custom proposal

Our account representatives can help you with a FREE demo, FREE unit trial or custom district proposal. Email [myaccountrep@flinnsci.com](mailto:myaccountrep@flinnsci.com), and a regional account representative will follow up with you.



**Talk to an Expert**

Have a question on how to implement FlinnSTEM™ in your classroom? Our scientists are available to help! Call **800-452-1261** to set up a 1-on-1 training session.