



# Engineering/STEM (K-8 Career Literacy)



CareerClusters®  
PATHWAYS TO COLLEGE & CAREER READINESS

Science, Technology,  
Engineering & Mathematics

The following resources are related to careers in the Science, Technology, Engineering, and Math (STEM) career cluster. [Click here](#) for a complete list of careers by cluster.

**Engineering Design Process** [teachengineering.org/](http://teachengineering.org/)  
(Grades K-8) Start here! This process emphasizes open-ended problem-solving and encourages learning from failure.

**Engineering for Kids** [engineeringforkids.com/](http://engineeringforkids.com/)  
(Grades K-8) Accredited, interactive engineering programs.

**EVERFI Endeavor** [endeavor-stem-career-activities-middle-school/](http://endeavor-stem-career-activities-middle-school/)  
(Grades 6-8) Career exploration projects in game design, prototype design, and data-related challenges.

**My American Farm** [games/subjects/engineering](http://games/subjects/engineering)  
(Grades K-5) Fun, educational games created by The American Farm Bureau Foundation.

**PBS Learning-Engineering Systems** [engineering--technology/systems](http://engineering--technology/systems)  
(Grades 6-8) Free robotics lessons based on science standards.

**Possible Futures—Engineering and Design** [arizonafuture.org/programs/](http://arizonafuture.org/programs/)  
(Grades 6-10) Free engineering lessons aligned to Arizona Career Literacy Standards.

**Project Lead the Way Automation and Robotics** [pltw.org/curriculum/pltw-gateway](http://pltw.org/curriculum/pltw-gateway)  
(Grades 6-8) Students combine mechanisms with automation and explore aspects of automation and robotics, and solve real-life problems of mechanical engineers, software developers, and electrical engineers.

**Rube Goldberg Machine—Teach Engineering** [simp\\_machines\\_lesson05\\_activity1](http://simp_machines_lesson05_activity1)  
(Grades 5-12) Open-ended, hands-on, fun challenge employs the engineering design process. Develops student creativity and problem-solving skills.

**Solve It Challenges** [schoolsup.org/solveit](http://schoolsup.org/solveit)  
(Grades 6-12) Free real-world challenges using the Engineering Design Process.

**Start-Up STEM** [startupstemllc.net/](http://startupstemllc.net/)  
(Grades K-5) Hands-on teacher PD for elementary educators to learn how to write STEM lessons and build a STEM community.

**STEM Activities—Science Buddies** [stem-activities/](http://stem-activities/)  
(Grades 5-8) Free real-world challenges using the Engineering Design Process.

**Teach STEM Explorers-AZ Educational Foundation** [azedfoundation.org/teachstem](http://azedfoundation.org/teachstem)  
(Grades 5-8) Free lessons on engineering design processes and inventions.

**ZSpace Franklin's Lab and Newton's Park** [zspace.com/solutions/stem](http://zspace.com/solutions/stem)  
(Grades K-8) Virtual platform for elementary students to learn how to build electrical circuits. Middle school students explore force and motion to design, build, run, and analyze experiments.

