

Online STEM Resources

Below is a list of online sites that are helpful in locating STEM ideas, lessons, activities, etc. Many of the lessons or activities found on these sites can be easily modified to meet the needs of various grade levels, include the Engineering Design Loop process, and to incorporate our Science frameworks and Math standards. However, most are not connected to text or literature (narrative curriculum) but can be easily connected to our ELA units.

These are just suggested sites and are not listed in a particular order.

[Teach Engineering](#)

Resources for K-12 – searchable site by level, subject, type of activity, etc.

[The Engineering Place](#)

Resources, lesson plans, etc.

[Brown Bag STEM Challenges](#)

Blog with fabulous challenges, ideas and strategies for STEM

[Play dough to Plato](#)

Neat blog for early elementary...has good ideas that can easily be modified to fit the Design Loop process

[eGFI – Engineering, Go For It!](#)

Interactive site: teach students about engineering, meet/read about engineers, etc.

[Try Engineering](#)

Resources for K-12 – searchable site by level, subject, type of activity, etc.

[PBS Design Squad](#)

Interactive site around “building” or “designing” - with resources for teachers, ideas and contests for kids, instructional videos, and more

[Young Engineers](#)

Resources, lesson plans, etc.

[Children’s Engineering Educators, LLC](#)

Some good ideas from lessons – many can easily be “tweaked” to be more rigorous and incorporate our standards and literature connections

[Engineering is Elementary](#)

This is a “for purchase” curriculum but they have some sample lessons and resources available

[Awesome Engineering Projects for Kids](#)

Blog with challenges and lessons for STEM – most can easily be modified to work in your grade level

[Teachers Try Science](#)

Free lessons, ideas and strategies for STEM

[STEM Engineering Resources – Live Binder](#)

Resources include: facts about STEM, resources for teachers, links to sites and blogs, student resources, and more

[I-STEM Resource Network](#)

Resources for PreK-12 – searchable site by level, subject, etc

[STEM – Live Binder](#)

Resources include: facts about STEM, resources for teachers, links to sites and blogs, student resources, and more

[We Can Change the World – Siemens and Discovery Education](#)

Resource section with ideas, lesson plans, literacy connections, and more

[We are Teachers](#)

Ideas, Information, and Inspiration – resources and lessons, grants and contests, and more

[National Science Digital Library](#)

Resources for STEM

[A to Z Teacher Stuff](#)

Free lesson plans in a variety of subject areas – many of the science plans can be adjusted to fit the design loop process

[Hot Chalk Lesson Plans](#)

Free lesson plans in a variety of subject areas – many of the science plans can be adjusted to fit the design loop process

[Science Kids](#)

Facts, topics, experiments, lessons, games and more

[STEM – ADE](#)

Arkansas Department of Education site to support STEM education – provides STEM foundations with videos from classrooms and associated materials for the lessons.

[Florida Engineering Society K-12 Classroom Resources](#)

Classroom resources and links

[STEM Collaborative](#)

Resources and lessons

[Discover E](#)

Videos and hands-on activities – many can be adapted to use the design loop process

[NASA – for Educators](#)

Resources, articles, lessons and more from NASA

[Sally Ride Science](#)

Resources, articles, lessons, videos, and more

[UASTEM](#)

Resources that include presentations and activities from the University of Arkansas Integrated STEM Education department - “2013 UA STEM Problem Solving Activities” and “2014 UA STEM Problem Solving Activities” are both LARGE files with many narrative curriculum STEM challenges ready to use in your classroom

[Engage](#)

Resources and lessons – funded by a grant from the National Science Foundation

[Orange County Public Schools STEM Resources](#)

not all of these are “available” to the public, but a few are

Elementary School Web Sites:

Showcase STEM with examples of STEM in their school, Design Briefs/projects, and house other STEM related resources:

[Liberty Elementary School](#)

[Jennie Dean Elementary School](#)