

Examples & Activities for Pre-College Students

ENGAGE offers an online library of Everyday Examples in Engineering that are designed for college students. However, there are a number of fun engineering and science examples and activities out there for younger students, including the following:

The Adventures of Josie True, [Activities](#), Students follow the adventures of Josie True in this game set in 1920s Chicago. The game features online and offline activities that use examples such as mini maglites, chili, and tetris. <http://www.josietrue.com/activities/index.htm>

Design Squad Nation, [Activities](#), This site is based on the PBS kids show of the same name and helps students learn about engineering through hands-on activities such as Dance Pad Mania, Confetti Launcher, and Extreme Kicking Machine. http://www.pbskids.org/designsquad/parent_seducators



eGFI, Engineering Go For It!, [Activities](#) and [Lesson Plans](#), In addition to their magazine and newsletter, eGFI has a library of activities and lesson plans for K-12. Students can learn about different areas of engineering through cookie mining, atomic candy, and crystal snowflakes. <http://teachers.egfi-k12.org/>

Engineering is Elementary, [Lesson Plans](#) Registration (free) is required to access a variety of lesson plans for math and science concepts. Students can become “human magnets” and do hands-on activities to see how an earthquake would affect a skyscraper. <https://www.mos.org/eie/unitpdfs/login.php>

Family Science, [Activities](#), The Foundation for Family Science offers fun sample activities. Students can make a paper clip raft and have a recycled can race. http://www.familyscience.org/sample_activities.html

Kinetic City, [Activities](#), Kinetic City offers fun online and offline activities as part of Spark Club. Students must beat knowledge-eating viruses, learning about science and earning points in the process. <http://www.kineticcity.com/>





The Science Explorer at the Exploratorium, [Activities](#), Is the Exploratorium in San Francisco too far for a class field trip? You can still use some of their great activities such as a Pringles Pinhole Camera and Outrageous Ooze.
http://www.exploratorium.edu/science_explorer/

TeachEngineering, [Activities](#) and [Lesson Plans](#), TeachEngineering has hundreds of activities and lesson plans for K-12. Amusement parks, jelly beans, and mummified trolls are only a few of the things used to demonstrate math and science concepts.
http://www.teachengineering.org/browse_activities.php
http://www.teachengineering.org/browse_lessons.php

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