

Ceramic, Glass, and STEM Resources

Free Materials Science Lessons

Download free lessons from The American Ceramic Society website for teacher demonstrations and small group student lab lessons.

K-12 Outreach from The American Ceramic Society

Information and resources for K-12 students.

DiscoverE (formerly the National Engineers Week Foundation)

This program helps unite, mobilize, and support the engineering and technology volunteer communities. This site celebrates K-12 education and promotes the value of engineering education and careers. A lot of great information for students and teachers alike!

The Naked Scientists from Cambridge University

Fun and easy experiments that can be done at home or in the classroom

SciGirls from PBS

SciGirls is designed to spark girls' curiosity in science, technology, engineering, and math (STEM) through activities that promote knowledge and discovery. This program—including the TV show, website, and educational outreach—is all about hands-on science inquiry. Participants learn the scientific process, work collaboratively to investigate meaningful questions, and see how STEM helps people solve problems, achieve goals, and help others.

The Ten Best STEM Resources from the National Education Association

STEM Activities and Resources for K-12 Teachers and Students

Students are introduced to the multidisciplinary field of material science. Through a class demo and PowerPoint® presentation, they learn the basic classes of materials (metals, ceramics, polymers, and composites) and how they differ from one another, considering concepts such as stress, strain, ductile, brittle, deformation, and fracture.

National Science Foundation

STEM Activities and Resources for K-12 Teachers and Students.