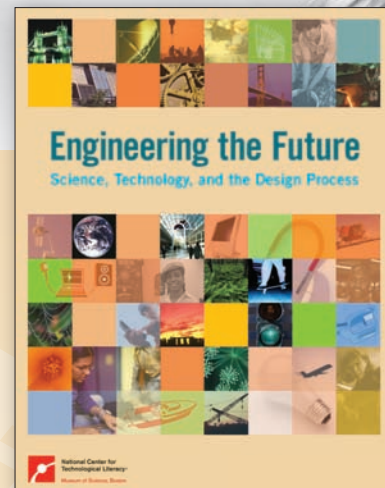
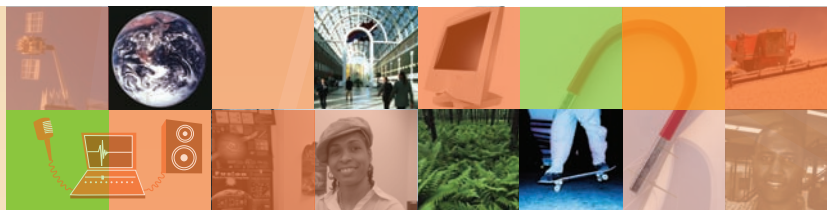


Engineering the Future:

Science, Technology, and the Design Process



Museum of Science, Boston Grades 9–12

With *Engineering the Future*, students strengthen their **technological literacy** and **critical-reasoning** skills through four quarter-long projects that include both hands-on activities and related textbook readings on careers and background concepts.

- **Project 1.0—Design the Best Organizer in the World:** Students learn the basics of engineering drawing and the design process.
- **Project 2.0—Design a Building of the Future:** Students design a multi-functional, efficient structure.
- **Project 3.0—Improve a Patented Boat Design:** Students investigate thermodynamics, energy transfer, fluid dynamics, motion, and energy sources.
- **Project 4.0—Electricity and Communication Systems:** Students explore electricity and apply their understanding to a series of design projects.

This one-year, project-based course can be taught:

- Early in high school to **spark student interest** in taking further science courses
- As a **capstone course** for juniors or seniors
- As an **introduction to engineering** for students considering STEM careers

Engineering the Future will help your students:

- Develop the habits of mind needed for **success in all science** courses
- Understand how **engineers** work and think
- Explore the basics of **physical science**
- Build a strong foundation in **physics**

Instructional materials include:

- **Teacher Guide**—Answers, insights, time lines, assessments, and alternative strategies
- **Engineering the Future student textbook**—First-person essays by practicing engineers
- **Engineer's Notebooks**—Four projects that build students' conceptual understanding and skills

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- Download **sample chapters**
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