

For Teachers: Alignment to Curriculum Frameworks

Note: Lesson plans in this series are aligned to one or more of the following sets of standards:

- U.S. Next Generation Science Standards (www.nextgenscience.org)
- U.S. Common Core State Standards for Mathematics (www.corestandards.org/Math)
- International Technology Education Association's Standards for Technological Literacy (<http://www.iteea.org/TAA/PDFs/xstnd.pdf>)
- Computer Science Teachers Association K-12 Computer Science Standards (<http://csta.acm.org/Curriculum/sub/K12Standards.html>)

◆ Next Generation Science Standards

K-ESS3-3 Earth and Human Activity

- ◆ Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

MS-LS2-5 Ecosystems: Interactions, Energy, and Dynamics

- ◆ Evaluate competing design solutions for maintaining biodiversity and ecosystem services

ETS1: Engineering Design

- ◆ ETS1.A: Defining and Delimiting an Engineering Problem
- ◆ ETS1.B: Developing Possible Solutions
- ◆ ETS1.C: Optimizing the Design Solution

ETS2: Links Among Engineering, Technology, Science, and Society

- ◆ ETS2.A: Interdependence of Science, Engineering, and Technology
- ◆ ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World

◆ Standards for Technological Literacy - All Ages

The Nature of Technology

- ◆ Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Technology and Society

- ◆ Standard 5. Students will develop an understanding of the effects of technology on the environment.

Design

- ◆ Standard 9: Students will develop an understanding of engineering design.
- ◆ Standard 10: Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Abilities for a Technological World

- ◆ Standard 11: Students will develop abilities to apply the design process.
- ◆ Standard 13. Students will develop abilities to assess the impact of products and systems.

Sorting No-Sort Recycling

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