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/xstd.pdf)
- Computer Science Teachers Association K-12 Computer Science Standards (http://csta.acm.org/Curriculum/sub/K12Standards.html)

◆ Next Generation Science Standards - Grades K-2 (Ages 5-8)

K-ESS3-1 Earth and Human Activity
- Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live.

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.

K-2-ETS1-1 Engineering Design
- Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

K-2-ETS1-2 Engineering Design
- Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

◆ 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.
- Standard 6. Students will develop an understanding of the role of society in the development and use of technology.

Design
- Standard 9: Students will develop an understanding of engineering design.

Abilities for a Technological World
- Standard 13. Students will develop abilities to assess the impact of products and systems.

The Designed World
- Standard 20. Students will develop an understanding of and be able to select and use construction technologies.