

HADDONFIELD PUBLIC SCHOOLS
Curriculum Map for 6th Grade Technology

Targeted Standard(s): NJCCCS
 TEC.5-8.8.1.A.1 Use appropriate technology vocabulary.
 TEC.5-8.8.2.8 A.4 - Describe how technological activity has an effect on economic development, political actions, and cultural change.
 TEC.5-8.8.1.8 A.11 - Choose appropriate electronic graphic organizers to create, construct, or design a document.
 TEC.5-8.8.2.B.1 Demonstrate and explain how the design process is not linear.
 TEC.5-8.8.2.B.2 Use hands on activities to analyze products and systems to determine how the design process was applied to create the solution.
 TEC.5-8.8.2.B.3 Identify a technological problem and use the design process to create an appropriate solution.
 TEC.5-8.8.1.8 B.4 - Describe and practice safe Internet usage.
 TEC.5-8.8.1.8 B.5 - Describe and practice "etiquette" when using the Internet and electronic mail.
 TEC.5-8.8.1.8 B.6 - Choose appropriate tools and information resources to support research and solve real world problems, including but not limited to:
 TEC.5-8.8.1.8 B.6.a - On-line resources and databases
 TEC.5-8.8.1.8 B.6.b - Search engines and subject directories
 TEC.5-8.8.1.8 B.7 - Evaluate the accuracy, relevance, and appropriateness of print and non-print electronic information sources.
 TEC.5-8.8.2.C.1 Explain technological advances in medical, agricultural, energy and power, information and communication, transportation, manufacturing, and construction technologies.
 Career Education and Life Skills/Critical Thinking 9.2A, 9.2B, 9.2C, 9.2D

Enduring Understandings (*The big ideas*):
 How to use the Internet Safety.
 Why bridges and structures are important to modern society.
 How package design contributes to product sales.
 The ability to use computer applications to solve real world problems using the design loop.

Essential Questions: What is technology and how do I relate to it? What is a bridge? What is internet safety? What is a structure? How do you design a package cover?

Core Content/Objectives		Instructional Actions	
Concepts <i>What students will know</i>	Skills <i>What students will be able to do</i>	Activities/Strategies <i>Learning Activities/ Differentiation Interdisciplinary Connections</i>	Assessment <i>How learning will be assessed</i>
Define technology Explain what a technology problem is Explain the design loop Design, construct and test a model bridge Explain the stresses on a structure under load Design a bridge using a structure design computer program Record and analyze bridge test results Explain the importance of bridges in our world- past, present and future	Define technology Explain technology change Explain the design loop. Design, construct and test a model bridge Explain the stresses on a structure under load Design a bridge using a structure design computer program Record and analyze bridge test results Explain the importance of bridges in our world- past, present and future	<ul style="list-style-type: none"> • Post a new blog entry about a technological improvement in the world and comment on two blog posts reflecting on those entries. • Create a PowerPoint presentation to share. • Record a podcast about a technology you use each day. • Create your own design loop and explain each step. • Post a new blog entry about a technological improvement in the world and comment on two blog posts reflecting on those entries. • Watch a video and identify the types of bridges described in the video. 	Each project will be assessed using a Benchmark rubric that is tied to standards.

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<p>Cyberbullying Copyright Illegal Activity Stranger Danger</p> <p>Posting information Types of Structures Purpose of Structures Social and Political implications of structures. Architectural Building Materials Interior Design</p>	<p>Define cyberbullying Define stranger danger Explain what information is and isn't appropriate to put online. List the types of dangers the Internet poses. Define architectural. Design a structure. List the parts of structure Explain what a building code is. List the steps in construction. Design a home. Use proper foreground and background colors. Work collaboratively with other students. Examine consumer packages List strengths and weaknesses of packages. Use a computer program to develop a graphic. Plan your package. Create a package for a product.</p>	<ul style="list-style-type: none"> • Work as a group to create a model of each type of bridge using legos and present your model to the class. • Create a model of a bridge • Discuss videos that demonstrate aspects of internet safety. • Read and discuss case studies of internet safety • Develop an internet safety checklist for your family. • Create a brochure to raise awareness of internet safety. • Create a PowerPoint Presentation about a significant architectural structure. • Create a model home. • Design a model using 3d software • Create a graphic • Perform a needs assessment to see what people package would appeal to people. • Plan a package in Google Sketchup. Create the package. 	
<p>Resources/Technology: Internet web sites Form Board Glue Guns Wood Various Software</p>			