Tenakill Middle School Technology Lesson Plan for the Week of 1/3/11

Submitted by: Sharon Mistretta

Grade	Monday	Tuesday	Wednesday	Thursday	Friday
5	1/3/11	1/4/11	1/5/11	1/6/11	1/7/11
6	1/3/11	1/4/11	1/5/11	1/6/11	1/7/11

Title of Lesson Plan:
Use a Comic Strip to Express My Knowledge about Wind Turbines
Focus:
In the future, how can I make changes to move away from the use of fossil fuels? 8.1.8.B.1, 8.2.8.F.2
Objective:
Create a comic strip using makebeliefscomix.com to express my knowledge of how wind turbines are used by communities such as Samso Island in Denmark.

Methods and Procedures:

1. View the video about Samso Island on my website on the Research Links page. (Use your headsets)
2. View the video on How Wind Turbines Work on my website on the Research Links page. (Use your headsets)
3. Create a comic about energy alternatives using the website: http://www.makebeliefscomix.com. This website does not save your comic. You must complete a screen shot to save your comic to the desktop.
4. Do a Command Shift 4 to create a screen shot of your comic on the desktop.

Strand: Technology Operations and Concepts
8.1.8.A.1 Create professional documents (e.g., newsletter, personalized learning plan, business letter or flyer) using advanced features of a word processing program.
8.1.8.A.2 Plan and create a simple database, define fields, input data, and produce a report using sort and query.
8.1.8.A.3 Create a multimedia presentation including sound and images.
8.1.8.A.4 Generate a spreadsheet to calculate, graph, and present information.
8.1.8.A.5 Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems.
Strand: Creativity and Innovation
8.1.8.B.1 Synthesize and publish information about a local or global issue or event on a collaborative, web-based service (also known as a shared hosted service).
Strand: Communication and Collaboration
8.1.8.C.1 Participate in an online learning community with learners from other countries to understand their perspectives on a global problem or issue, and propose possible solutions.
Strand: Digital Citizenship
8.1.8.D.1 Model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics.
8.1.8.D.2 Summarize the application of

5. Rename your comic according to the following example: 6MSharonMistrettaComic. The file name should be your number grade, initial of the day that you attend Technology (use R for Thursday), your first name, last name and the word Comic in camel notation. Resources: 1. Online videos 2. http://www.makebeliefscomix.com 3. Instructional Handout. Assigned Work: 1. Create comic, save the file to the desktop. Assessment: This comic will be incorporated into the student's Energy Power Point Presentation. Bloom's Key Words to Keep in Mind: Creating, Evaluating, Analyzing, Applying, Understanding, Remembering Essential Elements of Instruction: 1. Select level of Difficulty 2. Teach to the Objective 3. Monitor Learning and Adjust Teaching 4. Use principles of learning: - accomplish focus (anticipatory set, focus, objective, motivation) - teach for retention - control rate and degree of learning (reinforcement, transfer, closure)	fair use and Creative Commons guidelines. 8.1.8.D.3 Demonstrate how information on a controversial issue may be biased. Strand: Research and Information Literacy 8.1.8.E.1 Gather and analyze findings using data collection technology to produce a possible solution for a content-related or real-world problem. Strand: Critical Thinking, Problem Solving and Decision Making 8.1.8.F.1 Use an electronic authoring tool in collaboration with learners from other countries to evaluate and summarize the perspectives of other cultures about a current event or contemporary figure. Strand: Nature of Technology: Creativity and Innovation 8.2.8.A.1 Explain the impact of globalization on the development of a technological system over time. Strand: Design: Critical Thinking, Problem Solving and Decision Making 8.2.8.B.1 Design and create a product that addresses a real-world problem using the design process and working with specific criteria and constraints. 8.2.8.B.2 Identify the design constraints and trade-offs involved in designing a prototype (e.g., how the prototype might fail and how it might be improved) by completing a design problem and reporting results in a multimedia presentation. 8.2.8.B.3 Solve a science-based design challenge and build a prototype using science and math principles throughout the design process. Strand: Technological Citizenship, Ethics, and Society 8.2.8.C.1 Explain the need for patents and the process of registering one. 8.2.8.C.2 Compare and contrast current and past incidences of ethical and unethical use of labor in the United

	States or another country and present results in a media-rich presentation. Strand: Research and Information Fluency 8.2.8.D.1 Evaluate the role of ethics and bias on trend analysis and prediction in the development of a product that impacts communities in the United States and/or other countries. Strand: Communication and Collaboration 8.2.8.E.1 Work in collaboration with peers and experts in the field to develop a product using the design process, data analysis, and trends, and maintain a digital log with annotated sketches to record the development cycle. Strand: Resources for a Technological World 8.2.8.F.1 Explain the impact of resource selection and processing in the development of a common technological product or system. 8.2.8.F.2 Explain how the resources and processes used in the production of a current technological product can be modified to have a more positive impact on the environment (e.g., by using recycled metals, alternate energy sources) and the economy. Strand: The Designed World 8.2.8.G.1 Explain why human-designed systems, products, and environments need to be constantly monitored, maintained, and improved. 8.2.8.G.2 Explain the interdependence of a subsystem that operates as part of a system.