

***Goals and Competencies— National Educational Technology Standards for Students (NETS\*S):*****National Educational Technology Standards for Students (NETS\*S):****1. Creativity and Innovation**

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

- a. apply existing knowledge to generate new ideas, products, or processes.
- b. create original works as a means of personal or group expression.
- c. use models and simulations to explore complex systems and issues.
- d. identify trends and forecast possibilities.

**2. Communication and Collaboration**

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students:

- a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.
- b. communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- c. develop cultural understanding and global awareness by engaging with learners of other cultures.
- d. contribute to project teams to produce original works or solve problems.

**3. Research and Information Fluency**

Students apply digital tools to gather, evaluate, and use information. Students:

- a. plan strategies to guide inquiry.
- b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
- c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks.
- d. process data and report results.

**4. Critical Thinking, Problem Solving, and Decision Making**

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students:

- a. identify and define authentic problems and significant questions for investigation.
- b. plan and manage activities to develop a solution or complete a project.
- c. collect and analyze data to identify solutions and/or make informed decisions.
- d. use multiple processes and diverse perspectives to explore alternative solutions.

**5. Digital Citizenship**

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:

- a. advocate and practice safe, legal, and responsible use of information and technology.
- b. exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.
- c. demonstrate personal responsibility for lifelong learning.
- d. exhibit leadership for digital citizenship.

**6. Technology Operations and Concepts**

Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:

- a. understand and use technology systems.
- b. select and use applications effectively and productively.
- c. troubleshoot systems and applications.
- d. transfer current knowledge to learning of new technologies.

***Skill Set—Students will work on the following highlighted technology skills:*****Applied Skills:**

- Open, close, move and resize windows
- Use file and page setup options to create neat, orderly pages
- Use print preview to check output prior to printing
- Locate files from hard drive
- Save files to appropriate location
- Demonstrate an understanding of proper techniques for using a variety of technology devices related to computer operations
- Navigate in menu and toolbar environments
- Create new objects and modify existing objects, including clip art
- Use toolbars to select and to draw objects
- Assign and edit fonts, font sizes and font styles

**Newly Introduced Skills:**

- Communicate effectively about technology, utilizing relevant terms that demonstrate awareness and understanding of technology – disk drive, file, file extension, graphic
- Use the cut and copy functions in conjunction with the paste command
- Use the undo and redo/repeat functions
- Select objects and then move, copy, crop, delete, resize, reshape and rotate them
- Add or modify border and fill appearance for thickness, colors and patterns
- Insert, delete and modify slides
- Insert graphics, movie and sound files appropriate to a presentations
- Insert text, graphs or files into a slide

***Activities***

Students have been studying agriculture in class, and are beginning to examine where raw materials come from, specifically in the United States.

**Day 1:**

Students will work on a country-wide product map, similar to the one seen in Time Magazine for kids [here](#). Using PowerPoint, students should insert an image from file, a blank map of the United States to be stored on the student drive. Then, students should use the Time Magazine article and related websites (to be determined) to decipher which products come from which areas and/or states. Students may use clip art to find small images to place on the correct state. Students may need assistance in finding the correct state on the map, if unlabeled.

On a new slide, students should answer questions regarding the map such as:

- 1) In which area of the country is corn most produced?
  - 2) In which area of the country are dairy cows located? Why do you think they are found in those states?
- Ask classroom teacher for additional questions from which student might make predictions or inferences.

**Day 2:**

Students will use PowerPoint and insert an image of their state into the slide. They will resize and crop, as necessary, then reposition the state to fill as much of the slide as possible. Next, students will search for a clip art image that describes one trait of their state, and place it over the state image. Students will then be directed to print their slide(s).

Green Woods Charter School	Teacher: Mrs. Starke	Time span: 2-3 days
Grade Level: 3rd		

See if students can e-mail a student from that state and ask a question about the agriculture in that state.	
<i>Materials/Resources</i>	<i>Assessment</i>
<a href="#">Product Map Information Handout</a>	Teacher observations during class time. Checklist of student skill set during one-on-one with teacher.