

Duanesburg Central School District

# Educational Technology Curriculum 3-5

***In accordance with: International Society for Technology in Education (ISTE)***

## Technology Curriculum Guide for: Grade 3

Topic & Time	Standards	Essential Knowledge / Guiding Questions / Understanding	Content / Skills	Resources/Assessment
Internet Safety November – January	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 2a, 2b, 2c, 2d, 4a, 4b, 4c, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p> <p>Common Core State Standards (NYS): [Writing Standards K-5] CCSS 4, CCSS 5, CCSS 6, CCSS 7, &amp; CCSS 8</p>	<p><b>Knowledge:</b> Students will be introduced to Internet safety and privacy. Students will utilize Internet sites designed to promote cyber safety for this or many activities. Teachers are welcome to find and use tools of their own to discuss and teach to the targeted area of curriculum.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Communication and Collaboration</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How will I use the Internet safely?</li> <li>• How will I keep my privacy while using the Internet?</li> <li>• What are some tips I should keep in mind in order to remain safe on the Internet?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will discuss, read, and reflect on risks of using the Internet.</li> <li>• Students will read, discuss, and reflect on ways to remain safe while using the Internet.</li> <li>• Students will use Internet based cyber security games to learn about Internet privacy.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Internet Safety</li> <li>2. Internet Privacy</li> <li>3. To do &amp; Not to do of Internet use</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Select a cyber-security website for kids.</li> <li>2. Read and discuss stories or rules on the website.</li> <li>3. Discuss rules to remain safe and private on the Internet.</li> <li>4. Play an Internet Safety game or create a project on FBI.gov</li> <li>5. Students should write two paragraphs about cyber safety and personal safety using the Internet.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">FBI KIDS</a></li> <li>• <a href="#">NetSmartz</a></li> <li>• <a href="#">SafeKids</a></li> <li>• <a href="#">Kids.gov</a></li> <li>• <a href="#">Cyber Safety for Children</a></li> <li>• Microsoft Word</li> </ul> <p><b>Assessment:</b></p> <p style="text-align: center;"><u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student Cyber Safety</li> <li>• Student Privacy</li> </ul> <p style="text-align: center;"><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Student ability to research.</li> <li>• Student ability to reflect on research.</li> </ul>

<p style="text-align: center;"><u>Internet Research / Webquest</u> September – November</p>	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1b, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4b, 4c, 5a, 5b, 5c, 6b, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will practice this common core activity using technology. Students will type a one page paper using</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Creativity and Innovation</li> <li>• Communication and Collaboration</li> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How does a student research topics using a webquest or teacher driven web assignment?</li> <li>• How do you use a document or web applications to summarize readings?</li> <li>• How will a webquest assist in reading comprehension and enhance skills in writing?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will research a topic on the Internet through a webquest by the teacher and read a recent internet article.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Internet Research</li> <li>2. Using a Webquest</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Research topic on webquest.</li> <li>2. Complete a writing assignment to display material learned from the webquest.</li> <li>3. Students read and discuss articles or responses aloud. Discussion of what is learned.</li> </ol>	<p><b>Resources:</b> <a href="http://www.webquest.org">www.webquest.org</a></p> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology for research.</li> <li>• Student use of technology for document creation.</li> <li>• Student growth of technology use during the school year.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Reading comprehension.</li> <li>• Student use of grammar.</li> </ul>
<p style="text-align: center;"><u>Typing</u> September – June</p>	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will practice this common core activity using technology. Students will type a one page paper using</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Creativity and Innovation</li> <li>• Communication and Collaboration</li> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• Will use of the qwerty keyboard for document creation assist in building typing skills?</li> <li>• What are the student’s writing skills?</li> <li>• How do you use a document or web applications to promote digital skills?</li> <li>• How will a student use 21<sup>st</sup> century tools to share opinions or facts with others?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will create and type a document of one full page or five paragraphs.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Typing skills</li> <li>2. Writing skills</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Develop a story (Brainstorm)</li> <li>2. Open a document publishing application such as <i>Microsoft Word, Google Doc, or OpenOffice Write</i>.</li> <li>3. Type a story or summary of topic approved by the teacher.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.netrover.com/~kingkid/writing/Kids_Writing.html">http://www.netrover.com/~kingkid/writing/Kids_Writing.html</a></li> <li>• <a href="http://www.arcademics.com/">http://www.arcademics.com/</a></li> </ul> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology for typing.</li> <li>• Student use of technology for document creation.</li> <li>• Student growth of technology use during the school year.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Writing skills.</li> <li>• Student use of grammar.</li> </ul>

<p style="text-align: center;"><u>Using Presentation Software as a Visual Aid for a Presentation</u> February – June</p>	<p><b>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS):</b> 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p> <p><b>Common Core State Standards (NYS):</b> CCSS 4, CCSS 5, CCSS 6, CCSS 7, &amp; CCSS 8</p>	<p><b>Knowledge:</b> Students will gain an understanding for utilizing several technology tools in order to report or display information, data, graphic assistants, and opinions. Students will understand the basic use of combining technologies in order to create a final presentable product.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Creativity and Innovation</li> <li>• Communication and Collaboration</li> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How do I create a presentation for an entire group of people?</li> <li>• How do I utilize technology as a visual aid for the presentation of a topic or subject?</li> <li>• How many technologies will I use to mesh a final product in order to present my topic?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will use data collected from outside sources and previous projects, writings, or communications to create a visual presentation of a topic.</li> <li>• Students will have an oral presentation that will use PowerPoint or like applications to present findings, topics, facts, and/or opinions on subject matter.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Learn how to use multiple applications for subject presentation.</li> <li>2. Evaluate information on the internet and amongst peers for summarized presentation in PowerPoint.</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Select an age appropriate topic or subject matter for oral presentation.</li> <li>2. Students will use reputable and appropriate resources to research and collect data by using the Internet.</li> <li>3. Use the Internet, Excel, and/or Word to develop necessary information to be presented in PowerPoint or similar presentation software.</li> <li>4. Students will create a PowerPoint presentation that only expresses high points of topic and does not read as a storybook.</li> <li>5. Students will find, copy, paste, and give credit to any visuals that enhance the understanding of their selected topic.</li> <li>6. Students will use PowerPoint as an assistant to present information and facts on a topic for classroom discussion.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Microsoft PowerPoint</a></li> <li>• Internet Browser</li> </ul> <p><b>Assessment:</b></p> <p style="text-align: center;"><u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology research.</li> <li>• Student use of technology for record keeping.</li> <li>• Student use of presentation software to support in oral report as a visual aid for topic discussion.</li> <li>• Student use of applications to display graphical aids for review.</li> </ul> <p style="text-align: center;"><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Student use of mathematics.</li> <li>• Grammar and vocabulary use.</li> <li>• Presentation of data and use of student generated written notes or literature.</li> </ul>
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## Technology Curriculum Guide for: Grade 4

Topic & Time	Standards	Essential Knowledge / Guiding Questions / Understanding	Content / Skills	Resources/Assessment
Internet Safety November – January	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 2a, 2b, 2c, 2d, 4a, 4b, 4c, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p> <p>Common Core State Standards (NYS): [Writing Standards K-5] CCSS 4, CCSS 5, CCSS 6, CCSS 7, &amp; CCSS 8</p>	<p><b>Knowledge:</b> Students will build on the understanding for Internet safety and privacy. Students will utilize Internet sites designed to promote cyber safety for this or many activities. Teachers are welcome to find and use tools of their own to discuss and teach to the targeted area of curriculum.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Communication and Collaboration</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How will I use the Internet safely?</li> <li>• How will I keep my privacy while using the Internet?</li> <li>• What are some tips I should keep in mind in order to remain safe on the Internet?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will discuss, read, and reflect on risks of using the Internet.</li> <li>• Students will read, discuss, and reflect on ways to remain safe while using the Internet.</li> <li>• Students will use Internet based cyber security games to learn about Internet privacy.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Build and reinforce on current knowledge Internet Safety</li> <li>2. Build and reinforce on current knowledge Internet Privacy</li> <li>3. To do &amp; Not to do of Internet use</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Select a cyber-security website for kids.</li> <li>2. Read and discuss stories or rules on the website.</li> <li>3. Discuss rules to remain safe and private on the Internet.</li> <li>4. Play an Internet Safety game or create a project on FBI.gov</li> <li>5. Students should write three paragraphs about cyber safety and personal safety using the Internet.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">FBI KIDS</a></li> <li>• <a href="#">NetSmartz</a></li> <li>• <a href="#">SafeKids</a></li> <li>• <a href="#">Kids.gov</a></li> <li>• <a href="#">Cyber Safety for Children</a></li> <li>• Microsoft Word</li> </ul> <p><b>Assessment:</b></p> <p style="text-align: center;"><u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student Cyber Safety</li> <li>• Student Privacy</li> </ul> <p style="text-align: center;"><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Student ability to research.</li> <li>• Student ability to reflect on research.</li> </ul>

<p style="text-align: center;">Internet Research / Webquest September – November</p>	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1b, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4b, 4c, 5a, 5b, 5c, 6b, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will practice this common core activity using technology. Students will type a one page paper using</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Creativity and Innovation</li> <li>• Communication and Collaboration</li> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How does a student research topics using a webquest or teacher driven web assignment?</li> <li>• How do you use a document or web applications to summarize readings?</li> <li>• How will a webquest assist in reading comprehension and enhance skills in writing?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will research a topic on the Internet through a webquest by the teacher and read a recent internet article.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>3. Internet Research</li> <li>4. Using a Webquest</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>4. Research topic on webquest.</li> <li>5. Complete a writing assignment to display material learned from the webquest.</li> <li>6. Students read and discuss articles or responses aloud. Discussion of what is learned.</li> </ol>	<p><b>Resources:</b> <a href="http://www.webquest.org">www.webquest.org</a></p> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology for research.</li> <li>• Student use of technology for document creation.</li> <li>• Student growth of technology use during the school year.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Reading comprehension.</li> <li>• Student use of grammar.</li> </ul>
<p style="text-align: center;">Typing September – June</p>	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will practice this common core activity using technology. Students will type a one page paper using</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Creativity and Innovation</li> <li>• Communication and Collaboration</li> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Digital Citizenship</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• Will use of the qwerty keyboard for document creation assist in building typing skills?</li> <li>• What are the student’s writing skills?</li> <li>• How do you use a document or web applications to promote digital skills?</li> <li>• How will a student use 21<sup>st</sup> century tools to share opinions or facts with others?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will create and type a document of one full page or five paragraphs.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>3. Typing skills</li> <li>4. Writing skills</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>4. Develop a story (Brainstorm)</li> <li>5. Open a document publishing application such as <i>Microsoft Word, Google Doc, or OpenOffice Write.</i></li> <li>6. Type a story or summary of topic approved by the teacher.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="http://www.netrover.com/~kingkid/writing/Kids_Writing.html">http://www.netrover.com/~kingkid/writing/Kids_Writing.html</a></li> <li>• <a href="http://www.arcademics.com/">http://www.arcademics.com/</a></li> </ul> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology for typing.</li> <li>• Student use of technology for document creation.</li> <li>• Student growth of technology use during the school year.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Writing skills.</li> <li>• Student use of grammar.</li> </ul>

**International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS):**  
1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b, 6c, & 6d.

**Common Core State Standards (NYS):**  
CCSS 4, CCSS 5, CCSS 6, CCSS 7, & CCSS 8

**Knowledge:**

Students will gain an understanding for utilizing several technology tools in order to report or display information, data, graphic assistants, and opinions. Students will understand the basic use of combining technologies in order to create a final presentable product.

**Major Focus (NETS):**

- Creativity and Innovation
- Communication and Collaboration
- Research and Information Fluency
- Critical Thinking, Problem Solving, and Decision Making
- Digital Citizenship
- Technology Operations and Concepts

**Essential Questions:**

- How do I create a presentation for an entire group of people?
- How do I utilize technology as a visual aid for the presentation of a topic or subject?
- How many technologies will I use to mesh a final product in order to present my topic?

**Content:**

- Students will use data collected from outside sources and previous projects, writings, or communications to create a visual presentation of a topic.
- Students will have an oral presentation that will use PowerPoint or like applications to present findings, topics, facts, and/or opinions on subject matter.

**Skills:**

1. Learn how to use multiple applications for subject presentation.
2. Evaluate information on the internet and amongst peers for summarized presentation in PowerPoint.

**Procedures:**

1. Select an age appropriate topic or subject matter for oral presentation.
2. Students will use reputable and appropriate resources to research and collect data by using the Internet.
3. Use the Internet, Excel, and/or Word to develop necessary information to be presented in PowerPoint or similar presentation software.
4. Students will create a PowerPoint presentation that only expresses high points of topic and does not read as a storybook.
5. Students will find, copy, paste, and give credit to any visuals that enhance the understanding of their selected topic.
6. Students will use PowerPoint as an assistant to present information and facts on a topic for classroom discussion.

**Resources:**

- [Microsoft PowerPoint](#)
- Internet Browser

**Assessment:**

Technology

- Student use of technology research.
- Student use of technology for record keeping.
- Student use of presentation software to support in oral report as a visual aid for topic discussion.
- Student use of applications to display graphical aids for review.

Common Core

- Student use of mathematics.
- Grammar and vocabulary use.
- Presentation of data and use of student generated written notes or literature.

# Technology Curriculum Guide for: Grade 5

Topic & Time	Standards	Essential Knowledge / Guiding Questions / Understanding	Content / Skills	Resources/Assessment
Using Technology for Current Events and Research September – June	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1b, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4b, 4c, 5a, 5b, 5c, 6b, &amp; 6d.</p> <p>Common Core State Standards (NYS): [Writing Standards K-5] CCSS 6, CCSS 7, &amp; CCSS 8, CCSS 10</p>	<p><b>Knowledge:</b> Students will practice this common core activity using technology on a regular basis to gain better skills in research and information fluency, Communication and Collaboration, and building a baseline for college and career skills.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>Research and Information Fluency</li> <li>Communication and Collaboration</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>How does a student research current events using the Internet?</li> <li>How do you use a document application to summarize readings?</li> <li>How can I communicate to others something that has been read on the Internet in order to better prepare myself for using digital tools to disseminate information?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>Students will research a current events source on the Internet approved by the teacher and read a recent internet article.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>Internet Research</li> <li>Document Application use.</li> <li>Typing</li> </ol> <p><b>Procedures:</b> <i>ON A REGULAR BASIS (RECOMMENDED WEEKLY)</i></p> <ol style="list-style-type: none"> <li>Research a current events topic on the internet through a reputable online news source.</li> <li>Read the article.</li> <li>Summarize the article with 3 paragraphs.</li> <li>Read aloud summarized article to classmates and discuss what was learned in both categories of technology and common core subjects.</li> </ol>	<p><b>Resources:</b></p> <ul style="list-style-type: none"> <li><a href="http://gma.yahoo.com">http://gma.yahoo.com</a></li> <li><a href="http://www.today.com">http://www.today.com</a></li> <li><a href="http://www.cbsnews.com">http://www.cbsnews.com</a></li> </ul> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>Student use of technology for research.</li> <li>Student use of technology for document creation.</li> <li>Student growth of technology use during the school year.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>Student understandings and discussions of readings and articles.</li> <li>Student use of grammar from class.</li> </ul>
Using Technology for Desktop Publications and Visual Communication September – November	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1a, 1b, 1c, 1d, 2a, 2b, 2d, 3c, 4a, 4b, 5a, 5b, 5c, 5d, 6a, 6b, 6c, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will gain an understanding for desktop publishing in order to communicate to an audience.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>Creativity and Innovation</li> <li>Communication and Collaboration</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>How will I effectively use technology to communicate and catch the eye of my intended audience?</li> <li>What is the best design and grammar to use to communicate to my audience effectively?</li> <li>How will I use graphics to align with subject matter and keep it relative to the event?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>Students will create a poster with Publisher for a school event. (Could be a fictional event)</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>Utilize desktop publishing technology to create communication to others.</li> <li>Typing effectively.</li> <li>Utilizing clipart and color design to effectively communicate.</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>Chose an event to make public.</li> <li>Design a layout or utilize pre-set templates to follow for 8½” x 11” poster.</li> <li>Make sure to identify needs of intended audience.</li> <li>Save document for future viewing.</li> </ol>	<p><b>Resources:</b> Internet, Microsoft Publisher</p> <p><b>Assessment:</b> <u>Technology</u></p> <ul style="list-style-type: none"> <li>Student use of technology for communication.</li> <li>Student use of technology for document creation.</li> <li>Student use of tools to be creative and display knowledge of technology.</li> </ul> <p><u>Common Core</u></p> <ul style="list-style-type: none"> <li>Student use of grammar.</li> <li>Student ability to relate to local current events.</li> </ul>



<p style="text-align: center;">Data &amp; Graphs November – January</p>	<p>International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS): 1a, 1b, 1d, 2a, 2b, 2c, 2d, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5d, 6a, 6b, 6c, &amp; 6d.</p>	<p><b>Knowledge:</b> Students will gain an understanding for utilizing spreadsheet applications for the purpose of generating visual aids. Students will have the ability to show data collected in a visual form for understanding and review.</p> <p><b>Major Focus (NETS):</b></p> <ul style="list-style-type: none"> <li>• Research and Information Fluency</li> <li>• Critical Thinking, Problem Solving, and Decision Making</li> <li>• Technology Operations and Concepts</li> </ul> <p><b>Essential Questions:</b></p> <ul style="list-style-type: none"> <li>• How do I record data into a spreadsheet document?</li> <li>• What functions does a spreadsheet application have to produce mathematical calculations?</li> <li>• Does a spreadsheet application such as Excel have the ability to create a visual comparison of data?</li> </ul>	<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Students will record data from a survey and create graph(s) based on results logged into a spreadsheet file.</li> </ul> <p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Learn how to record data into a spreadsheet document.</li> <li>2. Evaluate data results from a source such as a survey or recorded data of a science experiment.</li> <li>3. Create visuals of the information consisting of graphs and charts based on the data collected.</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Take a survey amongst peers that is related to student wants, needs, or opinion on a school appropriate topic.</li> <li>2. Record data collected into a chart on Microsoft Excel.</li> <li>3. Use data to create graphs for visual aids in order to evaluate information collected.</li> </ol>	<p><b>Resources:</b> Microsoft Excel</p> <ul style="list-style-type: none"> <li>• <a href="http://www.internet4classrooms.com/excel_create_chart.htm">http://www.internet4classrooms.com/excel_create_chart.htm</a></li> <li>• <a href="http://office.microsoft.com/en-us/excel-help/create-a-chart-HP001233728.aspx">http://office.microsoft.com/en-us/excel-help/create-a-chart-HP001233728.aspx</a></li> </ul> <p><b>Assessment:</b></p> <p style="text-align: center;"><u>Technology</u></p> <ul style="list-style-type: none"> <li>• Student use of technology for mathematical records.</li> <li>• Student use of technology for calculation.</li> <li>• Student use of applications to display graphical aids for review.</li> </ul> <p style="text-align: center;"><u>Common Core</u></p> <ul style="list-style-type: none"> <li>• Student use of mathematics.</li> <li>• Student use of calculations.</li> <li>• Creation of survey questions with grammatical perfection.</li> </ul>
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**International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS):**  
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**Common Core State Standards (NYS):**  
CCSS 4, CCSS 5, CCSS 6, CCSS 7, & CCSS 8

**Knowledge:**

Students will gain an understanding for utilizing several technology tools in order to report or display information, data, graphic assistants, and opinions. Students will understand the basic use of combining technologies in order to create a final presentable product.

**Major Focus (NETS):**

- Creativity and Innovation
- Communication and Collaboration
- Research and Information Fluency
- Critical Thinking, Problem Solving, and Decision Making
- Digital Citizenship
- Technology Operations and Concepts

**Essential Questions:**

- How do I create a presentation for an entire group of people?
- How do I utilize technology as a visual aid for the presentation of a topic or subject?
- How many technologies will I use to mesh a final product in order to present my topic?

**Content:**

- Students will use data collected from outside sources and previous projects, writings, or communications to create a visual presentation of a topic.
- Students will have an oral presentation that will use PowerPoint or like applications to present findings, topics, facts, and/or opinions on subject matter.

**Skills:**

1. Learn how to use multiple applications for subject presentation.
2. Evaluate information on the internet and amongst peers for summarized presentation in PowerPoint.

**Procedures:**

1. Select an age appropriate topic or subject matter for oral presentation.
2. Students will use reputable and appropriate resources to research and collect data by using the Internet.
3. Use the Internet, Excel, and/or Word to develop necessary information to be presented in PowerPoint or similar presentation software.
4. Students will create a PowerPoint presentation that only expresses high points of topic and does not read as a storybook.
5. Students will find, copy, paste, and give credit to any visuals that enhance the understanding of their selected topic.
6. Students will use PowerPoint as an assistant to present information and facts on a topic for classroom discussion.

**Resources:**

- [Microsoft PowerPoint](#)
- Excel
- Word
- Internet Browser

**Assessment:**

Technology

- Student use of technology research.
- Student use of technology for record keeping.
- Student use of presentation software to support in oral report as a visual aid for topic discussion.
- Student use of applications to display graphical aids for review.

Common Core

- Student use of mathematics.
- Grammar and vocabulary use.
- Presentation of data and use of student generated written notes or literature.