| Second Grade | Tech Smarts   |
|--------------|---|
|              | Computer Basics/Technology  |
|              | Pennsylvania Academic Standards:  |
|              | 1.1.3E Demonstrate fluency in oral reading of grade level texts.                            |
|              | 1.6.3A Listen critically and respond to others in small and large group situations.         |
|              | Respond with grade level appropriate questions, ideas, information, or opinions.            |
|              | 3.7.4C Identify basic computer operations and concepts.                                     |
|              | ISTE/NETS:  |
|              | 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.   |
|              | 6. Technology Operations and Concepts   |
|              | Students demonstrate a sound understanding of technology concepts, systems, and             |
|              | operations.   |
|              | Students:   |
|              | a. Understand and use technology systems.   |
|              | Essential Understandings:   |
|              | Computers are tools that help us do jobs more efficiently.                                  |
|              | There are many different technology devices.  |
|              | Overarching and Essential Questions:  |
|              | Name the basic computer devices?  |
|              | Vocabulary:   |
|              | Cables  |
|              | CD/DVD  |

| <br>I  |
|--|
| Keyboard   |
| Laptop   |
| Monitor  |
| Mouse  |
| Mouse pad  |
| Printer  |
| Speaker  |
| Tower  |
| USB drive  |
| Online storage   |
| Assessments: Performance Tasks, Projects   |
| Can you find the ?   |
| Matching word to picture with laminated cards.                                       |
| Assessments: Quizzes, Tests and Academic Prompts                                     |
| PowerPoint quiz (from CD)  |
| Matching paper/pencil quiz (from CD)   |
| Assessments: Other Evidence (e.g., observations, work samples, dialogues)            |
| Teacher observation of Can you find? and matching activities                         |
| Assessments: Student Self-Assessment   |
| The students are able to use the new vocabulary in class to refer to a device.       |
| The students "ticket out" could be to name a device picture with the correct term.   |
| Students will need to know (targeted understandings):                                |
| Students will learn to use technology vocabulary based on computer devices.          |
| Students will be able to do (targeted skills):                                       |
| Students will demonstrate a sound understanding of technology concepts, systems, and |
| operations.  |
| Make a book that demonstrates their knowledge of the different computer devices.     |
|  |

| Teaching and learning experiences:  |
|---|
| Using the following lessons from Teacher Resource book:   |
| Computer Basics Slide Show (PowerPoint) – page 28   |
| Identify the Devices – page 31  |
| Make a Book – page 32   |
| Coloring Book – page 36   |
| Materials and Resources:  |
| Teacher Resource book:  |
| Kids, Computers, and Learning by Holly Poteete  |
| The 12 devices - Cables, CD/DVD drive, CD/DVD, keyboard, laptop, monitor, mouse, mouse pad, printer, speakers, tower, USB drive |
| CD from text  |
| Projector   |
| Picture/vocabulary cards (laminated)  |
| Accommodations:   |
| Seating arrangements and visual aides   |
| Follow IEP and 504 Plans  |
| Buddy system  |
| Enrichments:  |
| Differentiated activities when necessary  |
|   |
|   |
| Time:   |
| 2 to 3 sessions; 45 minutes once a cycle  |
| Name/Date Curriculum Completed: Greenawald/Hovis/Klinedinst/Rice, August 2011   |

| Second Grade | Tech Smarts  |
|--------------|--|
|              | Internet and Computer Safety   |
|              | Pennsylvania Academic Standards:   |
|              | 1.1.3E Demonstrate fluency in oral reading of grade level texts.   |
|              | 1.6.3A Listen critically and respond to others in small and large group situations.<br>Respond with grade level appropriate questions, ideas, information, or opinions.        |
|              | 3.7.4E Identify basic computer communication systems.  |
|              | 5.1.3A Explain the purposes of rules, laws and consequences.   |
|              | 5.2.3A Identify personal rights and responsibilities.  |
|              | 5.2.3B Identify the sources of conflict and disagreement and different ways conflict can be resolved.  |
|              | <ul><li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li><li>13.3.3B Identify how to cooperate at both home and school.</li></ul> |
|              | 13.3.3G Discuss how time is used at both home and school.  |
|              | ISTE/NETS  |
|              | 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.  |
|              | 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                            |
| 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                             |
| Essential Understandings:   |
| Content on Internet can be posted by anyone and must be valued.                         |
| Not all websites are reliable sources.  |
| There are appropriate ways to communicate on-line.                                      |
| Communication shared on the Internet is not private.                                    |
| Overarching and Essential Questions:  |
| What is Digital Citizenship (Netiquette)?   |
| What is UYN – Use your NetSmartz?   |
| What is a virus and how can it harm your computer?                                      |
| Vocabulary:   |
| Cyber Bullying  |
| UYN – Use your NetSmartz  |
| IM – Instant Messaging  |
| Chatting  |
| Virus   |
| Pop up  |
| Spyware   |

| Attachment   |
|--|
| E-mail   |
| E-card   |
| Anti-virus software  |
| Digital Citizenship (Netiquette)   |
|  |
| NetSmartz  |
| <br>YAPPY – your name, address, phone number, password and your plans  |
| Assessments: Performance Tasks, Projects   |
| Netiquette Wordle printouts, Netiquette Posters (see example - name on top, glue   |
| netiquette terms to construction paper, glue 8.5 x 11 white plain paper where students   |
| will draw a picture of netiquette, and underneath write a phrase or sentence describing picture).  |
| Assessments: Other Evidence (e.g., observations, work samples, dialogues)  |
| Observation and dialogue   |
| Assessments: Student Self-Assessment   |
| The student will play the Internet and Computer Safety game and videos on the web site NetSmartzkids.org.  |
| Students will need to know (targeted understandings):  |
| Students will be able to understand the vocabulary: UYN – Use your NetSmartz; IM –   |
| Instant Messaging; Chatting; Virus; Pop up; Spyware; Attachment; E-mail; E-card;   |
| <br>Anti-virus software; Digital Citizenship (Netiquette); NetSmartz   |
| Students will be able to do (targeted skills):   |
| The student will be able to use the vocabulary: UYN – Use your NetSmartz; IM –   |
| Instant Messaging; Chatting; Virus; Pop up; Spyware; Attachment; E-mail; E-card;<br>Anti-virus software; Digital Citizenship (Netiquette); NetSmartz |
| Teaching and learning experiences:   |
| Using the following lessons from Teacher Resource book:  |
| Internet Safety Song – page 51   |

| Name/Date Curriculum Completed: Greenawald/Hovis/Klinedinst/Rice, August 2011         |
|---|
| <b>Time:</b> 5 to 6 sessions; 45 minutes once a cycle; ongoing throughout other units |
| <br>Differentiated activities when necessary  |
| Enrichments:  |
| Buddy system  |
| Follow IEP and 504 Plans  |
| Seating arrangement and visual aides  |
| Accommodations:   |
| Interactive Whiteboard  |
| Color printer   |
| Headphone   |
| Laptop  |
| Teacher Resource book: Kid's, Computers, and Learning by Holly Poteete                |
| Wordle.net (Netiquette) List of words about the related topic                         |
| Infinite Learning   |
| abbreviation – featuring Alison Stoner  |
| NetSmartzkids.org (games – green icon; videos - red camera) UYN the NetSmartz chat    |
| Materials and Resources:<br>Tech Smarts poster  |
| *See assessments for other learning experiences                                       |
| Internet Safety Slide Show – page 60  |
| Internet Safety Terms – page 57   |
| Treat Others the Way You Want to be Treated – page 55                                 |
| <br>Online Interactive Stories – page 53  |

| Second Grade | Tech Smarts   |
|--------------|---|
|              | Hardware  |
|              | Pennsylvania Academic Standards:  |
|              | 1.1.3E Demonstrate fluency in oral reading of grade level texts.  |
|              | 1.1.3F Understanding the meaning of and use correctly new vocabulary learned in various subject areas.  |
|              | 1.6.3A Listen critically and respond to others in small and large group situations.<br>Respond with grade level appropriate questions, ideas, information, or opinions. |
|              | 1.6.3D Contribute to discussion.  |
|              | 1.6.3E Participate in small and large group discussions and presentations.  |
|              | 2.6.3D Form and justify an opinion on whether a given statement is reasonable based on a comparison to data.  |
|              | 3.7.4C Identify basic computer operations and concepts.   |
|              | 3.7.4D Use basic computer software.   |
|              | ISTE/NETS Standards:  |
|              | 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  |
|              | 3. Research and Information Fluency   |
|              | Students apply digital tools to gather, evaluate, and use information.  |
|              | Students:   |
|              | 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<br>to specific tasks  |

| 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                             |
| d. transfer current knowledge to learning of new technologies                           |
| Essential Understandings:   |
| Hardware is the physical component of the piece of technology.                          |
| Hardware accepts input, processes and stores data and produces output.                  |
| Overarching and Essential Questions:  |
| How do you properly handle and store hardware?  |
| How do you use the specific hardware?   |
| What is an App?   |
| Vocabulary:   |
| Hardware  |
| Арр   |
| iPod  |
| iPad  |
| Laptop  |

| Interactive Whiteboard  |
|---|
| Projector   |
| Printer   |
| Document Camera   |
| Scanner   |
| System Preferences – Dock, desktop picture  |
| Assessments: Performance Tasks, Projects  |
| The students played various apps and rated them using one to three stars for favorites. |
| <br>Assessments: Other Evidence (e.g., observations, work samples, dialogues)           |
| Observation and dialogue.   |
| Assessments: Student Self-Assessment  |
| The student will use different types of hardware.                                       |
| Students will need to know (targeted understandings):                                   |
| Hardware can accept input, process and store data and produce output.                   |
| The physical piece of technology that you touch and hold is called hardware.            |
| Students will be able to do (targeted skills):  |
| Properly pick up, carry and put back their hardware.                                    |
| Turn on and off the hardware.   |
| Explain and use an iPod and/or iPad App.  |
| Interact with whiteboard.   |
| Add applications to the dock.   |
| Teaching and learning experiences:  |
| Students will be introduced to the proper handling and usage of the following items:    |
| Laptop  |
| iPod  |
|   |

| iPad   |
|--|
| Interactive Whiteboard   |
| Rate apps  |
| Using system preferences, the students changed their dock location and size as well as |
| change their desktop picture. (Photo Booth or Apple images)                            |
| Materials and Resources:   |
| Teacher Resource book:   |
| Kid's, Computers, and Learning by Holly Poteete  |
| I-Tunes is used to download Apps (students will not do this)                           |
| iPod Cart  |
| iPad Cart  |
| Laptop Cart  |
| Laptop   |
| Projector  |
| Interactive Whiteboard   |
| Photo Booth  |
| Accommodations:  |
| Seating arrangement and visual aides   |
| Follow IEP and 504 Plans   |
| Buddy system   |
| Enrichments:   |
| Offering additional hardware time when finishing their other tasks                     |
| Time: 3 to 5 sessions; 45 minutes once a cycle   |
| Name/Date Curriculum Completed: Greenawald/Hovis/Klinedinst/Rice, August               |
| 2011   |

| Second Grade | Tech Smarts  |
|--------------|--|
|              | Software Applications  |
|              | Word Processing – Word/Pages   |
|              | Photo Booth  |
|              | Presentation – PowerPoint/Keynote  |
|              | Stickies   |
|              | Apps for iPads and iPods   |
|              | Spartan docs   |
|              | Wiki/Blog  |
|              | Pennsylvania Academic Standards:   |
|              | 1.1.3E Demonstrate fluency in oral reading of grade level texts.   |
|              | 1.1.3F Understanding the meaning of and use correctly new vocabulary learned in various subject areas.         |
|              | 1.4.3A Write narrative pieces.   |
|              | 1.6.3A Listen critically and respond to others in small and large group situations.                            |
|              | Respond with grade level appropriate questions, ideas, information, or opinions.                               |
|              | 1.6.3D Contribute to discussion.   |
|              | 1.6.3E Participate in small and large group discussions and presentations.                                     |
|              | 2.5.3A Uses appropriate problem-solving strategies.  |
|              | 2.4.3A Make, check and verify predictions about the quantity, size and shape of objects and groups of objects. |
|              | 2.8.3A Recognize, describe, extend, create and replicate a variety of patterns including                       |
|              | attribute, activity, number and geometric patterns.  |
|              | 2.8.3G Use table or chart to display information.  |
|              | 2.9.31 Predict how shapes can be changed by combining or dividing them.  |

| <ul> <li>3.7.4E Identify basic computer communication systems.</li> <li>5.1.3A Explain the purposes of rules, laws and consequences.</li> <li>5.2.3A Identify personal rights and responsibilities.</li> <li>5.2.3B Identify the sources of conflict and disagreement and different ways conflict can be resolved.</li> <li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li> <li>13.3.3A Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b></li> <li>1. Creativity and Innovation</li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> </ul> </li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks</li> </ul> </li> </ul> | 3.7.4D Use basic computer software.   |
|--|---|
| <ul> <li>5.2.3A Identify personal rights and responsibilities.</li> <li>5.2.3B Identify the sources of conflict and disagreement and different ways conflict can be resolved.</li> <li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b></li> <li>1. Creativity and Innovation</li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul></li></ul>   | 3.7.4E Identify basic computer communication systems.                                       |
| <ul> <li>5.2.3B Identify the sources of conflict and disagreement and different ways conflict can be resolved.</li> <li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b> <ol> <li>Creativity and Innovation</li> <li>Students:</li> <li>a apply existing knowledge to generate new ideas, products, or processes</li> <li>Communication and Collaboration</li> <li>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.</li> <li>Students: <ol> <li>interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>Research and Information Fluency</li> <li>Students:</li> <li>locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ol> </li> </ol></li></ul>  | 5.1.3A Explain the purposes of rules, laws and consequences.                                |
| <ul> <li>be resolved.</li> <li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b> <ol> <li>Creativity and Innovation</li> </ol> </li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ol> <li>apply existing knowledge to generate new ideas, products, or processes</li> <li>Communication and Collaboration</li> </ol> </li> <li>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.</li> <li>Students: <ol> <li>interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>Research and Information Fluency</li> <li>Students:</li> <li>locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ol> </li> </ul>   | 5.2.3A Identify personal rights and responsibilities.                                       |
| <ul> <li>13.3.3A Identify attitudes and work habits that contribute to success at home and school.</li> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b> <ol> <li>Creativity and Innovation</li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ol> <li>apply existing knowledge to generate new ideas, products, or processes</li> <li>Communication and Collaboration</li> </ol> </li> <li>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.</li> <li>Students: <ol> <li>interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>Research and Information Fluency</li> <li>Students:</li> <li>locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ol> </li> </ol></li></ul>   | 5.2.3B Identify the sources of conflict and disagreement and different ways conflict can    |
| <ul> <li>13.3.3B Identify how to cooperate at both home and school.</li> <li>13.3.3G Discuss how time is used at both home and school.</li> <li><b>ISTE/NETS:</b> <ol> <li>Creativity and Innovation</li> </ol> </li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ol> <li>apply existing knowledge to generate new ideas, products, or processes</li> <li>Communication and Collaboration</li> </ol> </li> <li>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.</li> <li>Students: <ol> <li>interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ol> </li> </ul>  | be resolved.  |
| <ul> <li>13.3.3G Discuss how time is used at both home and school.</li> <li>ISTE/NETS: <ol> <li>Creativity and Innovation</li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ol> <li>apply existing knowledge to generate new ideas, products, or processes</li> <li>Communication and Collaboration</li> </ol> </li> <li>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.</li> <li>Students: <ol> <li>interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>Research and Information Fluency</li> <li>Students:</li> <li>locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ol> </li> </ol></li></ul>   | 13.3.3A Identify attitudes and work habits that contribute to success at home and school.   |
| ISTE/NETS:1. Creativity and InnovationStudents demonstrate creative thinking, construct knowledge, and develop innovative<br>products and processes using technology.Students:a. apply existing knowledge to generate new ideas, products, or processes2. Communication and CollaborationStudents use digital media and environments to communicate and work collaboratively,<br>including at a distance, to support individual learning and contribute to the learning of<br>others.Students:a. interact, collaborate, and publish with peers, experts, or others employing a variety of<br>digital environments and media3. Research and Information FluencyStudents:b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a<br>variety of sources and mediac. evaluate and select information sources and digital tools based on the appropriateness   | 13.3.3B Identify how to cooperate at both home and school.                                  |
| <ul> <li>1. Creativity and Innovation</li> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> </ul> </li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul>  | 13.3.3G Discuss how time is used at both home and school.                                   |
| <ul> <li>Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.</li> <li>Students: <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> </ul> </li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul>  | ISTE/NETS:  |
| <ul> <li>products and processes using technology.</li> <li>Students: <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> </ul> </li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul>  | 1. Creativity and Innovation  |
| <ul> <li>Students:</li> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul>  | Students demonstrate creative thinking, construct knowledge, and develop innovative         |
| <ul> <li>a. apply existing knowledge to generate new ideas, products, or processes</li> <li>2. Communication and Collaboration</li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul>   | products and processes using technology.  |
| <ul> <li>2. Communication and Collaboration</li> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students: <ul> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul></li></ul>  | Students:   |
| <ul> <li>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.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students: <ul> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul></li></ul>  | a. apply existing knowledge to generate new ideas, products, or processes                   |
| <ul> <li>including at a distance, to support individual learning and contribute to the learning of others.</li> <li>Students: <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students: <ul> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul> </li> </ul></li></ul>   | 2. Communication and Collaboration  |
| others.<br>Students:<br>a. interact, collaborate, and publish with peers, experts, or others employing a variety of<br>digital environments and media<br>3. Research and Information Fluency<br>Students apply digital tools to gather, evaluate, and use information.<br>Students:<br>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a<br>variety of sources and media<br>c. evaluate and select information sources and digital tools based on the appropriateness   | Students use digital media and environments to communicate and work collaboratively,        |
| <ul> <li>Students:</li> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>  | including at a distance, to support individual learning and contribute to the learning of   |
| <ul> <li>a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>   | others.   |
| <ul> <li>digital environments and media</li> <li>3. Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>   | Students:   |
| <ul> <li>3. Research and Information Fluency</li> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>   | a. interact, collaborate, and publish with peers, experts, or others employing a variety of |
| <ul> <li>Students apply digital tools to gather, evaluate, and use information.</li> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>  | digital environments and media  |
| <ul> <li>Students:</li> <li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li> <li>c. evaluate and select information sources and digital tools based on the appropriateness</li> </ul>  | 3. Research and Information Fluency   |
| <ul><li>b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media</li><li>c. evaluate and select information sources and digital tools based on the appropriateness</li></ul>  | Students apply digital tools to gather, evaluate, and use information.                      |
| variety of sources and media<br>c. evaluate and select information sources and digital tools based on the appropriateness  | Students:   |
| c. evaluate and select information sources and digital tools based on the appropriateness  | b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a    |
|  | variety of sources and media  |
| to specific tasks  | c. evaluate and select information sources and digital tools based on the appropriateness   |
|  | to specific tasks   |
|  |   |
|  |   |

| 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                             |
| Essential Understandings:   |
|   |
| Word processing software can be used to communicate thoughts and ideas.                 |
| Word processing documents can be edited, formatted and saved as the user makes          |
| revisions.  |
| Digital photo software can be used to capture and edit images that can be imported into |
| a word processing document.   |
| Overarching and Essential Questions:  |
| Why do we use word processing software?   |
| What kind of changes can we make to a document that was created with word               |
| processing software?  |
| What does digital photo software do?  |
| When do we use digital photo software?  |
| Vocabulary:   |
| Word processing   |
| Digital photo   |
|   |

| Software   |
|--|
| Stickies   |
| PowerPoint/Keynote   |
| Slide transition   |
| Animation  |
| Slide layout   |
| Themes   |
| Wiki/Blog  |
| Highlight text   |
| Format, edit, cut, copy, paste   |
|  |
| Font name, font size, font color   |
| Click and drag   |
| File save and print  |
| Insert shapes and table  |
| Alignment  |
| Effects  |
| Shortcuts  |
| Spacing between words  |
| <br>Punctuation  |
| Assessments: Performance Tasks, Projects   |
| Create a table in a word processing document.  |
| Students will be able to change the font, font size, and color of text.  |
| Students will use shift, space bar, delete, punctuation, tab, and enter/return keys on the keyboard. (Spacing – one space after a word, no space before a word or a mark of punctuation) |
| Create a document using various shapes and a table. There is a sample in the drop off folder on the shared drive.  |

| Make notes, copy, cut, paste, change font, font size and color using Stickies.<br>Create and buddy share a PowerPoint/Keynote presentation about a common topic.<br>(example: Clouds) |
|---|
| Assessments: Other Evidence (e.g., observations, work samples, dialogues)<br>Observations and printouts   |
| Type a story using any word processing software   |
| Assessments: Student Self-Assessment  |
| Self-editing with the delete key.   |
| Students will need to know (targeted understandings):   |
| Students will need to know when we use word processing software.  |
| Students will need to know a word processing document can be edited, formatted and saved.   |
| Students will need to know to know that digital photo software captures images that   |
| they can edit.<br>Students will need to know that we can use digital photo software to import images.   |
| Students will be able to do (targeted skills):  |
| Students will be able to communicate original thoughts and ideas using word processing.   |
| Students will be able to revise their document.   |
| Students will be able to take a photo using digital photo software, edit and import into a document.  |
| Teaching and learning experiences:  |
| Using the following lessons from Teacher Resource book:   |
| Word Processing toolbars – Pages/Word - page 130  |
| Creating a document – page 136  |
| Using a word processor (for example):   |
| Create a table.   |
| Create a picture using shapes, WordArt, color, font name and size.  |

| Type words/stories and they cut, copy and pasted. (ex: spelling words)                  |
|---|
| Insert a picture from clipart and Photo Booth.  |
| Use the software program Stickies to teach copy, cut and paste using their name,        |
| favorite color, television show and animal.   |
| Materials and Resources:  |
| Teacher Resource book:  |
| Kid's, Computers, and Learning by Holly Poteete   |
| Photo Booth   |
| Word and/or Pages   |
| Interactive Whiteboard  |
| Laptop  |
| Color Printer   |
| PowerPoint/Keynote  |
| Stickies  |
| Accommodations:   |
| Teacher provided notes or visual aids (sentence starters, spelling lists)               |
| Follow IEP and 504 Plans  |
| Seating arrangement and visual aides  |
| Buddy system  |
| Enrichments:  |
| Take the given task a step further. (Add more columns in a table and/or add a sentence) |
| Create extra slides for the presentation.   |
| Insert Photo into a document.   |
| Time: 6 to 8 sessions; 45 minutes once a cycle  |
| Name/Date Curriculum Completed: Greenawald/Hovis/Klinedinst/Rice, August<br>2011        |

| Second<br>Grade | Tech Smarts   |
|-----------------|---|
|                 | World Wide Web and Communicating  |
|                 | Pennsylvania Academic Standards:  |
|                 | 1.1.3E Demonstrate fluency in oral reading of grade level texts.  |
|                 | 1.1.3F Understanding the meaning of and use correctly new vocabulary learned in various subject areas.  |
|                 | 1.2.3B Use and understand a variety of media and evaluate the quality of material produced.   |
|                 | 1.6.3A Listen critically and respond to others in small and large group situations.<br>Respond with grade level appropriate questions, ideas, information, or opinions. |
|                 | 1.6.3D Contribute to discussion.  |
|                 | 1.6.3E Participate in small and large group discussions and presentations.  |
|                 | 1.8.3B Locate information using appropriate sources and strategies.   |
|                 | 1.8.3C Organize and present the main ideas from research.   |
|                 | 3.7.4D Use basic computer software.   |
|                 | 3.7.4E Identify basic computer communication systems.   |
|                 | 5.1.3A Explain the purposes of rules, laws and consequences.  |
|                 | 5.2.3A Identify personal rights and responsibilities.   |
|                 | 5.2.3B Identify the sources of conflict and disagreement and different ways conflict can be resolved.   |
|                 | 13.3.3A Identify attitudes and work habits that contribute to success at home and school. 13.3.3B Identify how to cooperate at both home and school.                    |
|                 | 13.3.3G Discuss how time is used at both home and school.   |
|                 | ISTE/NETS Standards:  |
|                 | 3. Research and Information Fluency   |
|                 | Students apply digital tools to gather, evaluate, and use information.<br>Students:   |

| a. 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  |
| 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                |
| 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                              |
| d. transfer current knowledge to learning of new technologies                            |
| d. transfer current knowledge to rearining of new technologies                           |
| Essential Understandings:  |
| It is important to use internet search engines in a safe manner.                         |
| The Internet is a citable source and subject to copyright.                               |
| Not all websites are reliable sources.   |
| Overarching and Essential Questions:   |
| How do you know that the website is reliable?  |
| How do you decide if the information is useful?  |
|  |

| How do you make someone else's information your own?                      |
|---|
| How do you safely use internet search engines?                            |
| What actions should you take if you encounter an inappropriate website?   |
|   |
| Vocabulary:   |
| Internet  |
| URL   |
| Status Bar  |
| Stop  |
| Back  |
| Home  |
| Refresh   |
| Address Bar   |
| Web Browser   |
| Search Engine   |
| Wiki/Blogs  |
| Assessments: Performance Tasks, Projects                                  |
| Stickies  |
| PowerPoint/Keynote  |
| Southern Lehigh Web site search (handout)                                 |
| Assessments: Other Evidence (e.g., observations, work samples, dialogues) |
| Dialogue  |
|   |
| Handout   |
| Observations  |
| Assessments: Student Self-Assessment                                      |
| Students will be able to properly navigate to teacher web pages           |

| Students will need to know (targeted understandings):                         |
|---|
| Not all websites are going to provide reliable and valid information.         |
| A website ending with .org, .edu, and .gov is usually reliable.               |
| When information is pertinent to their topic.                                 |
| Copyright laws.   |
| The Internet is not always safe.  |
| Students will be able to do (targeted skills):                                |
| Summarize new information in their words.                                     |
| Safely surf the Internet.   |
| Find a reliable website resource.   |
| Teaching and learning experiences:  |
| Discovery Streaming Video (The Internet: A Guide for Students)                |
| Web Browser Worksheet I supplement 4K (CD)                                    |
| Copy and paste information from the Internet/Word/Pages to Stickies           |
| Copy and paste information from Stickies into Keynote/PowerPoint              |
| Accommodations:   |
| Teacher provided notes or visual aids   |
| Follow IEP and 504 Plans  |
| Seating arrangement and visual aides  |
| Buddy system  |
| Enrichments:  |
| Find additional information from a website and copy and paste to Stickies     |
| Find photos to accompany the Keynote/PowerPoint presentation                  |
| <b>Time:</b> 10 to 12 sessions; 45 minutes once a cycle                       |
| Name/Date Curriculum Completed: Greenawald/Hovis/Klinedinst/Rice, August 2011 |