

**Shrewsbury Borough School Technology Curriculum 2012
Grade 2**

Marking Period 1:	Marking Period 2:	Marking Period 3:	Marking Period 4:
<p><u>Topic 1:</u> <u>Computer Parts/Same Game</u></p> <p>Objectives:</p> <p>Show an understanding of common computer terms and parts.</p> <p>Demonstrate ability to go to a specific web address and navigate through a website.</p> <p>Understand how to double click to navigate through the game.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will review computer parts and terms by completing SMART Board tasks as a class.</p> <p>Discuss difference between URL box and Google box.</p> <p>Students will open Safari and type in specific web address.</p>	<p><u>Topic 5:</u> <u>iCalendar</u></p> <p>Objectives:</p> <p>Learn how to create a picture calendar using iPhoto.</p> <p>Learn how to input text into the calendar.</p> <p>Learn how to move, rotate, crop and zoom pictures in their calendars.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will bring in a CD or flash drive of 25-40 photos of themselves, family, and friends.</p> <p>Once we upload them to iPhoto they will create their own album.</p> <p>They will fill the calendar with</p>	<p><u>Topic 8:</u> <u>Mid-Year Assessment:</u> <u>Leprechaun Graphic Organizer</u></p> <p>Objectives:</p> <p>Demonstrate ability to create a graphic organizer.</p> <p>Understand how to change size of paintbrush.</p> <p>Demonstrate how to make numerous text boxes on a single page.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will open Pixie document where they will take a sticker of a leprechaun and then take a picture with the webcam of their face to put it on the leprechaun's head.</p> <p>They will select a background</p>	<p><u>Topic 12:</u> <u>Good Deeds Movie:</u></p> <p>Objectives:</p> <p>Discuss and brainstorm good deeds they have done.</p> <p>Create a script for movie.</p> <p>Create drawings to go along with sentences.</p> <p>Record voice to create movie.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will open Word and type a script on two good deeds they have done for (two of the three) family members, friends, or random people.</p> <p>Remind them about spacing, capital letters, and formatting.</p> <p>Change font style, color and size.</p>

<p>They will navigate through the website to get to a specific game.</p> <p>Learn how to double click on certain letters/numbers to accomplish the highest score.</p> <p>Essential Questions:</p> <p>Can the student double click, manipulate the mouse, and click and drag?</p> <p>Materials:</p> <p>Safari (internet connection)</p> <p>Web Site Address</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p>	<p>pictures, learning how to change the layout if needed.</p> <p>They will type in holidays in correct dates and then type in family birthdays.</p> <p>Students will use correct spacing and capitalization.</p> <p>Learn how to move, crop, rotate, and zoom pictures in their calendars.</p> <p>When finished we will print the calendars and we will bind them.</p> <p>Essential Questions:</p> <p>How can digital tools be used for creating original and innovative works, ideas, and solutions?</p> <p>Materials:</p> <p>CD/Flash drive of pictures from home</p> <p>Letters to the parents</p> <p>Birthday lists</p>	<p>using the fill tool.</p> <p>Review how to create numerous text boxes.</p> <p>They will type what kind of leprechaun they are, where they live, and what they like to do.</p> <p>Select a paintbrush size and color. They are to draw a 3-4 touching lines from their face to their text boxes.</p> <p>Students can change color of the fonts.</p> <p>Essential Questions:</p> <p>How do I choose which technological tools to use and when it is appropriate to use them?</p> <p>Materials:</p> <p>Pixie</p> <p>Webcam</p>	<p>Create a picture that goes along with each sentences using webcam for their faces.</p> <p>Record their voice over their pictures to create a class movie.</p> <p>Essential Questions:</p> <p>How can digital tools be used for creating original and innovative works, ideas, and solutions?</p> <p>Materials:</p> <p>Word</p> <p>WebCam</p> <p>iMovie</p> <p>Headphones</p> <p>Microphone</p> <p>Pixie</p>
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<p><u>Topic 2:</u> <u>Internet Safety:</u></p> <p>Objectives:</p> <p>Understand the positive and negatives to the internet.</p> <p>Demonstrate ability to know how to surf the web safely.</p> <p>Know the importance of having a parent/guardian know what sites they are going to.</p> <p>Watch a video clip from the National Center for Missing and Exploited Children.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will have a group discussion with teacher about internet safety and cyberbullying.</p> <p>They will understand what to do if they feel unsafe using the internet and what to do if someone bullies them through an electronic device. Review how the internet is a way people use to get information about them.</p>	<p>iPhoto</p> <p>Colored Printer</p> <p>Binding Spines</p> <p>Binding Machine</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 6:</u> <u>Thanksgiving Graph</u></p> <p>Objectives:</p> <p>Gain knowledge of the new program, Microsoft Excel.</p> <p>Compare and contrast both Microsoft Word and Excel.</p> <p>Demonstrate ability to collect data and input it into a spreadsheet.</p> <p>Learn how to create a pie graph.</p>	<p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 9:</u> <u>Leprechaun Movie:</u></p> <p>Objectives:</p> <p>Understand when and how to use specific keys to properly format a Word document.</p> <p>Create a script for movie.</p> <p>Create drawings to go along with sentences.</p> <p>Record voice to create movie.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will open Word and type a script on what kind of leprechaun they are, where they live and what they like to do.</p>	<p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 13:</u> <u>Animal Alliteration Book:</u></p> <p>Objectives:</p> <p>Create a collaborative class alliteration book.</p> <p>Demonstrate ability to brainstorm words that begin with a certain letter.</p> <p>Create a short paragraph about an animal using alliteration.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will open Pixie and brainstorm as many words as they can that begin with the letter given to them.</p> <p>Students can go on the internet to help them come up with</p>
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<p>They will watch a video clip from NetSmartz about internet safety.</p> <p>www.netsmartz.org/ NetSmartzKids/BeSaferOnline</p> <p>Students can discuss what they like to do online and teacher will explain how to make sure they are being safe.</p> <p>Questions will be answered about the subject.</p> <p>Essential Questions:</p> <p>In a world of constant change, how should students stay proactive in the fight against internet crimes?</p> <p>Why is it important to teach internet safety and about cyberbullying to the students?</p> <p>Materials:</p> <p>Internet Connection</p> <p>SMART Board</p>	<p>Lessons, Activities, & Student Products:</p> <p>Students will collect data of their favorite thanksgiving foods on the SMART Board.</p> <p>Students will open a blank spreadsheet in Microsoft Excel.</p> <p>Students will input the data of their favorite Thanksgiving foods.</p> <p>Create a pie graph.</p> <p>Change colors of graph, insert title, and percent labels.</p> <p>Remind students about how to use correct spacing, capital letters, and formatting.</p> <p>Essential Questions:</p> <p>In a world of constant change, what skills should we learn?</p>	<p>Remind students about how to use correct spacing, capital letters, and formatting.</p> <p>Change font style, color and size.</p> <p>Review how to highlight.</p> <p>Create a picture that goes along with each sentences using webcam for their faces.</p> <p>Record their voice over their pictures to create a class movie.</p> <p>Essential Questions:</p> <p>How can digital tools be used for creating original and innovative works, ideas, and solutions?</p> <p>Materials:</p> <p>Word</p> <p>WebCam</p> <p>iMovie</p> <p>Headphones</p>	<p>words.</p> <p>Students can use stickers in Pixie to help them come up with words.</p> <p>They will select an animal that begins with their letter.</p> <p>They will type a short paragraph about their animal with an alliteration format.</p> <p>They will have to create a picture of what their paragraph said their animal was doing and what it looked like.</p> <p>Essential Questions:</p> <p>How do I choose which technological tools to use and when it is appropriate to use them?</p> <p>Materials:</p> <p>Pixie</p> <p>Internet</p> <p>Letter Cards</p>
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<p>Assessment:</p> <p>Teacher Observation</p> <p>Classroom Participation/ Acknowledgement</p> <p><u>Topic 3:</u> <u>Graphic Organizer:</u></p> <p>Objectives:</p> <p>Demonstrate ability to create a graphic organizer.</p> <p>Demonstrate ability to open activities within a program.</p> <p>Understand how to change size of paintbrush.</p> <p>Demonstrate ability of mousing skills.</p> <p>Learn how to make numerous text boxes on a single page.</p>	<p>Materials:</p> <p>Microsoft Excel</p> <p>SMART Board</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Skills Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 7:</u> <u>Animal Eats</u></p> <p>Objectives:</p> <p>Demonstrate ability to create a text box.</p> <p>Understand how to minimize and navigate between two windows.</p> <p>Type sentences on specific topic.</p> <p>Create drawing to go along with sentences.</p> <p>Take picture of self, using the</p>	<p>Microphone</p> <p>Pixie</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 10:</u> <u>Bulleting:</u></p> <p>Objectives:</p> <p>Learn how to create bullets in a Word document.</p> <p>Demonstrate ability to change icons of bullets.</p> <p>Understand how to change style of fonts.</p> <p>Familiarize them with the keyboard.</p>	<p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 14:</u> <u>End of Year Assessment:</u> <u>Favorite Seasons Graph</u></p> <p>Objectives:</p> <p>Understand how and why to use the program, Microsoft Excel.</p> <p>Demonstrate ability to collect data and input it into a spreadsheet.</p> <p>Demonstrate ability on how to create a pie graph.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will collect data of their favorite seasons on the SMART Board.</p>
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<p>Lessons, Activities, & Student Products:</p> <p>Students will open Pixie document where they will take a picture of themselves with the webcam.</p> <p>They will select a background using the fill tool.</p> <p>Review how to create numerous text boxes.</p> <p>They will type name, favorite food, favorite thing to do, and their age.</p> <p>Select a paintbrush size and color. They are to draw a 3-4 touching lines from their face to their text boxes.</p> <p>Students can change color of the fonts.</p> <p>They must change the color and style of each letter in their name.</p> <p>Essential Questions:</p> <p>In a world of constant change, what skills should we learn?</p>	<p>webcam.</p> <p>Understand how to navigate through a website.</p> <p>Lessons, Activities, & Student Products:</p> <p>Students will open Word and type sentences on what animal they are and what they like to eat.</p> <p>They will go on a specific website to find this information.</p> <p>Remind students about how to use correct spacing, capital letters, and formatting.</p> <p>Change font style, color and size.</p> <p>Create a picture of the animal they were given and use webcam for their faces.</p>	<p>Lessons, Activities, & Student Products:</p> <p>Students will open Word and create a bulleted list of all their favorite fonts.</p> <p>They will select a bullet and learn how to get more bullet options.</p> <p>Review how and why we use bullets.</p> <p>They will have to change the font to the style they selected.</p> <p>Essential Questions:</p> <p>In a world of constant change, what skills should we learn?</p> <p>Materials:</p> <p>Word</p>	<p>Students will open a blank spreadsheet in Microsoft Excel.</p> <p>Students will input the data of their favorite seasons in the spreadsheet.</p> <p>Create a pie graph.</p> <p>Change colors of graph, insert title, and percent labels.</p> <p>Remind students about how to use correct spacing, capital letters, and formatting.</p> <p>Essential Questions:</p> <p>In a world of constant change, what skills should we learn?</p> <p>Materials:</p> <p>Microsoft Excel</p> <p>SMART Board</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Skills Based Assessment</p>
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<p>Materials:</p> <p>Pixie</p> <p>Slip of paper of what is expected in each text box</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p> <p><u>Topic 4:</u> <u>Weather Chart</u></p> <p>Objectives:</p> <p>Cooperatively work with a partner to complete a task.</p> <p>Demonstrate ability to open a pre-made activity within a program.</p> <p>Understand how to navigate through a website.</p> <p>Learn how to minimize and navigate between two windows.</p> <p>Learn how to copy and paste pictures and text.</p>	<p>Essential Questions:</p> <p>How can digital tools be used for creating original and innovative works, ideas, and solutions?</p> <p>Materials:</p> <p>WebCam</p> <p>Pixie</p> <p>Colored Printer</p> <p>Animal Cards</p> <p>Safari (internet connection)</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p>	<p><u>Topic 11:</u> <u>Keyboarding Unit</u></p> <p>Objectives:</p> <p>Learn the “home row” keys.</p> <p>Demonstrate ability to sit correctly and position fingers on the keyboard.</p> <p>Understand how to navigate through a website.</p> <p>Familiarize self with the keyboard without looking.</p> <p>Using the program, Easy Tech Keyboarding</p> <p>Lessons, Activities, & Student Products:</p> <p>Discuss difference between URL box and Google box.</p> <p>Learn how to sit and hold hands correctly when typing.</p> <p>Students will practice putting their hands on the home row.</p>	<p>Classroom Participation</p>
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<p>Lessons, Activities, & Student Products:</p> <p>Discuss difference between URL box and Google box.</p> <p>Students will open Safari and type in a topic in the Google toolbox to find a helpful website.</p> <p>They will navigate through the website to get specific information about current and future weather.</p> <p>Learn how to minimize open windows and retrieve them.</p> <p>Learn how to navigate to two open windows.</p> <p>Learn how to copy and paste both text and images in Pixie.</p> <p>Learn different ways to copy and paste.</p> <p>Essential Questions:</p> <p>How do I choose which technological tools to use and when it is appropriate to use them?</p>		<p>Students will type a series of letters and punctuation on command.</p> <p>They will then go to Easy Tech Keyboarding and complete specific levels till they are comfortable and familiar with the keyboard.</p> <p>Essential Questions:</p> <p>In a world of constant change, what skills should we learn?</p> <p>Materials:</p> <p>Safari (internet connection)</p> <p>EasyTech Keyboarding Software</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Skills Based Assessment through the EasyTech Program</p> <p>Classroom Participation</p>	
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<p>Materials:</p> <p>Safari (internet connection) Colored Printer</p> <p>Assessment:</p> <p>Teacher Observation</p> <p>Project Based Assessment</p> <p>Classroom Participation</p>			
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<p>NJCCCS:</p> <p><u>8.1 Educational Technology All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.</u></p> <p>8.1.2.A Technology Operations and Concepts: The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.2.A.1: Identify the basic features of a computer and explain how to use them effectively.</p> <p>8.1.2.A.2: Use technology terms in daily practice.</p> <p>8.1.2.A.3: Discuss the common uses of computer applications and hardware and identify their advantages and disadvantages.</p> <p>8.1.2.A.4: Create a document with text using a word processing program.</p>	<p>NJCCCS:</p> <p><u>8.1 Educational Technology All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.</u></p> <p>8.1.2.A Technology Operations and Concepts: The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.2.A.1: Identify the basic features of a computer and explain how to use them effectively.</p> <p>8.1.2.A.2: Use technology terms in daily practice.</p> <p>8.1.2.A.3: Discuss the common uses of computer applications and hardware and identify their advantages and</p>	<p>NJCCCS:</p> <p><u>8.1 Educational Technology All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.</u></p> <p>8.1.2.A Technology Operations and Concepts: The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.2.A.1: Identify the basic features of a computer and explain how to use them effectively.</p> <p>8.1.2.A.2: Use technology terms in daily practice.</p> <p>8.1.2.A.3: Discuss the common uses of computer applications and hardware and identify their advantages and</p>	<p>NJCCCS:</p> <p><u>8.1 Educational Technology All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.</u></p> <p>8.1.2.A Technology Operations and Concepts: The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.2.A.1: Identify the basic features of a computer and explain how to use them effectively.</p> <p>8.1.2.A.2: Use technology terms in daily practice.</p> <p>8.1.2.A.3: Discuss the common uses of computer applications and hardware and identify their advantages and disadvantages.</p>
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<p>8.1.2.A.5: Demonstrate the ability to navigate in virtual environments that are developmentally appropriate.</p> <p>8.1.4.A The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.4.A.1: Demonstrate effective input of text and data using an input device.</p> <p>8.1.4.A.2: Create a document with text formatting and graphics using a word processing program.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p> <p>8.1.2.B Creativity and Innovation: The use of digital tools and media-rich resources enhances creativity and the construction of knowledge.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and</p>	<p>disadvantages.</p> <p>8.1.2.A.4: Create a document with text using a word processing program.</p> <p>8.1.2.A.5: Demonstrate the ability to navigate in virtual environments that are developmentally appropriate.</p> <p>8.1.4.A The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.4.A.1: Demonstrate effective input of text and data using an input device.</p> <p>8.1.4.A.2: Create a document with text formatting and graphics using a word processing program.</p> <p>8.1.4.A.4: Create a simple spreadsheet, enter data, and interpret the information.</p>	<p>disadvantages.</p> <p>8.1.2.A.4: Create a document with text using a word processing program.</p> <p>8.1.2.A.5: Demonstrate the ability to navigate in virtual environments that are developmentally appropriate.</p> <p>8.1.4.A The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.4.A.1: Demonstrate effective input of text and data using an input device.</p> <p>8.1.4.A.2: Create a document with text formatting and graphics using a word processing program.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p>	<p>8.1.2.A.4: Create a document with text using a word processing program.</p> <p>8.1.2.A.5: Demonstrate the ability to navigate in virtual environments that are developmentally appropriate.</p> <p>8.1.4.A The use of technology and digital tools requires knowledge and appropriate use of operations and related applications.</p> <p>8.1.4.A.1: Demonstrate effective input of text and data using an input device.</p> <p>8.1.4.A.2: Create a document with text formatting and graphics using a word processing program.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p>
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<p>media-rich resources.</p> <p>8.1.2.D.1: Model legal and ethical behaviors when using both print and non-print information by citing resources.</p> <p>8.1.4.D1: Explain the need for each individual, as a member of the global community, to practice cyber safety, cyber security, and cyber ethics when using existing and emerging technologies.</p> <p>8.1.4.D.3: Explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology.</p> <p><u>8.2 Technology Education, Engineering, and Design</u> All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.</p>	<p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p> <p>8.1.4.A.3: Create and present a multimedia presentation that includes graphics.</p> <p>8.1.2.B Creativity and Innovation: The use of digital tools and media-rich resources enhances creativity and the construction of knowledge.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p> <p>8.1.2.C: Communication and Collaboration: Digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems.</p> <p>8.1.2.C.1: Engage in a variety of developmentally appropriate learning activities with students in other classes,</p>	<p>8.1.2.B Creativity and Innovation: The use of digital tools and media-rich resources enhances creativity and the construction of knowledge.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p> <p><u>8.2 Technology Education, Engineering, and Design</u> All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.</p> <p>8.2.2.A Nature of Technology: Creativity and Innovation Technology products and systems impact every aspect of the world in which we live.</p> <p>8.2.2.A.1: Describe how technology products, systems, and resources are useful at</p>	<p>8.1.2.B Creativity and Innovation: The use of digital tools and media-rich resources enhances creativity and the construction of knowledge.</p> <p>8.1.2.B.1: Illustrate and communicate original ideas and stories using digital tools and media-rich resources.</p> <p><u>8.2 Technology Education, Engineering, and Design</u> All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.</p> <p>8.2.2.A Nature of Technology: Creativity and Innovation Technology products and systems impact every aspect of the world in which we live.</p> <p>8.2.2.A.1: Describe how technology products, systems, and resources are useful at</p>
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<p>8.2.2.A Nature of Technology: Creativity and Innovation Technology products and systems impact every aspect of the world in which we live.</p> <p>8.2.2.A.1: Describe how technology products, systems, and resources are useful at school, home, and work.</p>	<p>schools, or countries using electronic tools.</p> <p><u>8.2 Technology Education, Engineering, and Design</u> All students will develop an <u>understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.</u></p> <p>8.2.2.A Nature of Technology: Creativity and Innovation Technology products and systems impact every aspect of the world in which we live.</p> <p>8.2.2.A.1: Describe how technology products, systems, and resources are useful at school, home, and work.</p>	<p>school, home, and work.</p>	<p>school, home, and work.</p>
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