

STRATFORD PUBLIC SCHOOLS
Curriculum Map: Grades K-2
Pacing Guide: September- November (First Quarter)
Unit 1: Computer Science and Design Thinking

Mission Statement: By the end of second grade, students will have a grasp of computers and their components to help them in today's knowledge based technological world by providing a curriculum of high-quality computer science and technological design education. By the end of second grade, students will also gain a better understanding of 21st Century skills as they apply to the computer science standards.

Essential Questions:

- What is technology and how does it work and impact the lives of ourselves and others in our world?
- How has technology changed and made our life easier?
- What is a computer made up of and how has the software and hardware changed?
- How should we correctly handle the computers?
- How to turn on and log into the computer?
- What is acceptable computer behavior?
- How does a mouse and touchpad work?
- How can I make sure my computer is safely connected to the internet? -What is a browser and how do you navigate through a browser? (google) -What is a keyboard and how do students utilize it to type their name?
- How can a student utilize the keyboard to log into a program called Typing Club?
- What fingers should students use to type the home row keys?
- What does the spacebar and backspace keys do?
- How can I make letters capital?
- How can I highlight words that I typed?
- How can I copy and paste and drag and drop by utilizing the mouse or touchpad?
- How can I print?
- How can I show good digital citizenship?
- How can I safely connect with other people on the computer?
- How can I use Google Docs to type assignments?
- How can I change the font, size and style of my writing on the computer? -How can I utilize Google Slides to create a presentation? (creative thinking) -How to navigate Google Classroom and Google Meet?

Enduring Understanding

- Technology impacts our lives and will be part of our future educational experiences.
- Being a good digital citizen is an essential quality of being a productive and successful citizen in the 21st century and beyond.
- Online communication and collaboration will be a key component of future and career choices of students.
- Utilizing different computer programs is a key concept in being a successful student.
- Typing will help students to successfully communicate more efficiently.
- Navigate the digital world to become healthy, productive, 21st century global-minded individuals.
- Participate in a diverse online community that incorporates perspectives where students can learn from different cultures, ethnicities, abilities and genders.

New Jersey Student Learning Standard	Core Content Objective		Instructional Actions	
	Concepts	Skills	Activities/Strategies	Assessment

<p><u>Targeted NJ Core Curriculum Content Standards</u></p> <p>8.1.2.CS.1, 8.1.2.CS.2, 8.1.2.CS.3, 8.1.2.NI.1, 8.1.2.NI.2, 8.1.2.NI.3, 8.1.2.NI.4, 8.1.2.IC.1, 8.1.2. DA.2, 8.2.2. ED.1, 8.2.2. ED.2, 8.2.2. ED.3, 8.2.2.ITH.1, 8.2.2.ITH.2, 8.2.2.ITH.3, 8.2.2.ITH.4, 8.2.2.ITH.5, 8.2.2.NT.1, 8.2.2.NT.2, 8.2.2.ETW.2, 8.2.2.EC.1</p> <p>21st Century Skills: - communication through digital methods</p>	<p>Following Directions</p> <p>Listening</p> <p>Computer Care</p> <p>Technology Then and Now</p> <p>Computer Basics</p> <p>Mouse- fine motor skills</p> <p>Keyboarding Google</p> <p>Google Docs</p> <p>Google Classroom</p> <p>Google Meet</p> <p>Digital Citizenship</p> <p>Internet Safety</p> <p>Media Balance</p>	<p>Computer Basics</p> <p>-Computer Lab procedures - Acceptable Behavior at the computer</p> <p>-Identifying digital citizenship while utilizing computer programs</p> <p>-Identifying computer parts and their uses</p> <p>-Proper use and care of the computers</p> <p>-Navigate the basic function of a browser</p> <p>- Utilize the correct typing strategies to type the home row keys.</p> <p>-Find numerals on a QWERTY keyboard.</p> <p>-Utilize the spacebar, backspace, delete, and shift keys.</p> <p>-Utilizing the font, size and style for typing in computer programs</p> <p>-Review drop, drag and copy and paste techniques. - Continue to type words and</p>	<p>- Websites/Apps - Computer Games:</p> <p>- Typing Club</p> <p>- Starfall.com</p> <p>- abcya.com</p> <p>- PBS Kids</p> <p>- storylineonline.net</p> <p>- seussville.com</p> <p>- bbc.co.uk - arcademics.com</p> <p>- kahoot</p> <p>- prodigy</p> <p>- YouTube</p> <p>- Google Classroom</p> <p>- Google Docs and Slides</p> <p>- nitrotype.com</p>	<p>Summative:</p> <p>logging into Typing Club - using the keyboard to find the letters in their name using the keyboard to find the numerals 1, 2, and 3 for their password placement of their fingers during typing activities (home row) -Student responses -Student completion of... starfall and abcya games, prodigy typing club lessons, bbc lessons</p> <p>-Typing Club scores j and f- Lesson 1 k and d-Lesson 2 j,f,k, and d- Lesson 3 l and s- Lesson 4 j,f,k,d,l,and s- Lesson 5 a and ;- Lesson 6 j,f,k,d,l,s,a, and ;- Lesson 7 g and h- Lesson 8</p>
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<p>-computing technology has changed the way people live and work</p> <p>Technology: chromebooks promethean board</p>		<p>sentences</p> <p>-practice online safety</p> <p>-practice password safety -</p> <p>practice the importance of media balance</p>		<p>j,f,k,d,l,s,a,;, g, and h-Lesson 9</p> <p>Formative:</p> <p>-Google Docs assignments -</p> <p>Slides projects</p> <p>-completion of coding games</p> <p>-teacher observations of students' being good digital citizens</p>
<p>Online Resources / Technology:</p>	<p>Chromebooks, Smaller mice, Headphones, Promethean board, Websites/Apps</p> <p>Computer Games:</p> <ul style="list-style-type: none"> - Typing Club - Starfall.com - abcy.com - PBS Kids - storylineonline.net - seussville.com - bbc.co.uk - arcademics.com - YouTube - prodigy - kahoot - Google Classroom - Google Docs and Slides - nitrotype.com 			

Primary Teacher Resources:	Chromebooks, mice, Headphones, Promethean Board
Modifications:	<i>Special Education: Extra time, visuals, shortened assignments, different size mice</i> <i>504 Students: visuals, extra time, shortened assignments</i> <i>ELL Students: Visuals, google translator</i> <i>Gifted and Talented Students: Extra Websites for extra practice (extra bbc lessons and abcyia typing games),faster pacing</i>

STRATFORD PUBLIC SCHOOLS
Curriculum Map: Grades K- 2
Pacing Guide: November - January (Second Quarter)
Unit 2: Computer Science and Design Thinking
<p>Essential Questions:</p> <ul style="list-style-type: none"> -What is technology and how does it work and impact the lives of ourselves and others in our world? -How has technology changed and made our life easier? -How should we correctly handle the computers? -How to turn on and log into the computer? -What is acceptable computer behavior? -How does a mouse and touchpad work? -What is a computer made up of and how has the software and hardware changed? -How can I make sure my computer is safely connected to the internet? -What is a browser and how do you navigate through a browser? (google) -What is a keyboard and how do students utilize it to type their name? -How can a student utilize the keyboard to log into a program called Typing Club? -What fingers should students use to type the home row and top row keys? - What does the spacebar and backspace keys do? - How can I make letters capital? -How can I highlight words that I typed? -How can I copy and paste and drag and drop by utilizing the mouse or touchpad? - How can I print? -How can I show good digital citizenship? -How can I safely connect with other people on the computer? -How can I collaborate with others in the digital world responsibly? - How can I use Google Docs to type assignments?

-How can I change the font, size and style of my writing on the computer? -How can I utilize Google Slides to create a presentation? (creative thinking) -How to navigate Google Classroom and Google Meet?
 -How can students sequence steps as it applies to coding?
 -How can I utilize coding websites to help me become a 21st century global-minded individual?

Enduring Understanding

-Technology impacts our lives and will be part of our future educational experiences.
 -Being a good digital citizen is an essential quality of being a productive and successful citizen in the 21st century and beyond.
 -Online communication and collaboration will be a key component of future and career choices of students.
 -Utilizing digital tools such as Google Apps to communicate thoughts, research and ideas effectively with other students in the classroom. -Utilizing different computer programs is a key concept in being a successful student.
 -Typing will help students to successfully communicate more efficiently.
 -Communicate effectively and responsibly by utilizing digital tools.
 - Coding will help students be successful in the STEAM based careers and or jobs they may attain.
 -Navigate the digital world to become healthy, productive, 21st century global-minded individuals.
 - Participate in a diverse online community that incorporates perspectives where students can learn from different cultures, ethnicities, abilities and genders.

New Jersey Student Learning Standard	Core Content Objective		Instructional Actions	
	Concepts	Skills	Activities/Strategies	Assessment

<p><u>Targeted NJ Core Curriculum Content Standards</u></p> <p>8.1.2.CS.1, 8.1.2.CS.2, 8.1.2.CS.3, 8.1.2.NI.1, 8.1.2.NI.2, 8.1.2.NI.3, 8.1.2.NI.4, 8.1.2.IC.1, 8.1.2.DA.2, 8.1.2.AP., 8.1.2.AP.3, 8.1.2.AP.4, 8.1.2.AP.5, 8.1.2.AP.6, 8.2.2.ED.1, 8.2.2.ED.2, 8.2.2.ED.3, 8.2.2.ED.4, 8.2.2.ITH.1, 8.2.2.ITH.2, 8.2.2.ITH.3, 8.2.2.ITH.4, 8.2.2.ITH.5, 8.2.2.NT.1, 8.2.2.NT.2, 8.2.2.ETW.1, 8.2.2.ETW.2, 8.2.2.EC.1</p> <p>21st Century Skills: - communication through digital methods - computing technology has changed the way people live and work - engineering design is a creative process - following simple sequence of events to complete tasks</p> <p>Technology:</p>	<p>Following Directions</p> <p>Listening</p> <p>Computer Care</p> <p>Technology Then and Now</p> <p>Computer Basics</p> <p>Mouse- fine motor skills</p> <p>Keyboarding</p> <p>Google</p> <p>Google Drive</p> <p>Google Docs</p> <p>Google Slides</p> <p>Google Classroom</p> <p>Google Meet</p> <p>Digital Citizenship</p> <p>Internet Safety</p> <p>Password Safety</p> <p>Coding</p>	<p>Computer Basics</p> <p>-Computer Lab procedures - Acceptable Behavior at the computer</p> <p>-Identifying digital citizenship while utilizing computer programs</p> <p>-Identifying computer parts and their uses</p> <p>-Proper use and care of computers</p> <p>-Navigate the basic function of a browser</p> <p>- Utilize the correct typing strategies to type the home row and some top row keys. - Find numerals on a QWERTY keyboard.</p> <p>-Utilize the spacebar, backspace, delete, and shift keys.</p> <p>-Utilizing the font, size and style for typing in computer programs</p> <p>-Review drop, drag and copy and paste techniques. - Continue to type words and sentences</p> <p>-practice online safety</p> <p>-practice password safety - practice the importance of media balance</p> <p>-learn to code programs</p>	<ul style="list-style-type: none"> - Websites/Apps Computer - Games: - Typing Club - Starfall.com - abcy.com PBS - Kids - storylineonline.net - seussville.com - bbc.co.uk - arcademics.com - prodigy kahoot - YouTube - Google Docs and Slides - nitrotype.com coding with roly blockly 	<p>Summative:</p> <p>logging into Typing Club - using the keyboard to find the letters in their name using the keyboard to find the numerals 1, 2, and 3 for their password</p> <p>- placement of fingers on typing activities (home row, top row, and bottom row) - Student responses -Student completion of... starfall, abcy.com, and prodigy games, typing club lessons, bbc lessons</p> <p>Typing Club scores j and f- Lesson 1 k and d-Lesson 2 j,f,k, and d- Lesson 3 l and s- Lesson 4 j,f,k,d,l, and s- Lesson 5 a and ; - Lesson 6 j,f,k,d,l,s,a, and ; - Lesson 7 g and h- Lesson 8 j,f,k,d,l,s,a,, g, and h-Lesson 9 top row- Lesson 10-19 –</p> <p>Formative:</p> <p>Google Docs assignments - Google Slides projects - teacher observations of students’ being good digital citizens including media balance</p> <p>-completion of coding games</p>
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chromebooks promethean board				
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Online Resources / Technology:	Chromebooks, Smaller mice, Headphones, Promethean Board, Websites/Apps Computer Games: <ul style="list-style-type: none"> - Typing Club - Starfall.com - abcy.com - PBS Kids - storylineonline.net - seussville.com - bbc.co.uk - prodigy - kahoot - YouTube - arcademics.com - Google Classroom - Google Docs and Slides - nitrotype.com - coding with roly
	- blockly
Primary Teacher Resources:	Chromebooks, mice, Headphones, Promethean Board
Modifications:	<i>Special Education: Extra time, visuals, shortened assignments, different size mice</i> <i>504 Students: visuals, extra time, shortened assignments</i> <i>ELL Students: Visuals, google translator</i> <i>Gifted and Talented Students: Extra Websites for extra practice (extra bbc lessons and abcy typing games), faster pacing</i>

STRATFORD PUBLIC SCHOOLS
Curriculum Map: Grades K- 2
Pacing Guide: February- April (Third Quarter)
Unit 3: Computer Science and Design Thinking

Essential Questions:

- What is technology and how does it work and impact the lives of ourselves and others in our world?
- How has technology changed and made our life easier?
- How are the effects of Technology impacting the natural world?
- How should we correctly handle the computers?
- How to turn on and log into the computer?
- What is acceptable computer behavior?
- How does a mouse and touchpad work?
- What is a computer made up of and how has the software and hardware changed?
- How can I make sure my computer is safely connected to the internet? -What is a browser and how do you navigate through a browser? (google) -What is a keyboard and how do students utilize it to type their name?
- How can a student utilize the keyboard to log into a program called Typing Club?
- What fingers should students use to type the home row, top row and bottom row keys? -What does the spacebar and backspace keys do?
- How can I make letters capital?
- How can I highlight words that I typed?
- How can I copy and paste and drag and drop by utilizing the mouse or touchpad?
- How can I print?
- How can I show good digital citizenship?
- How can I safely connect with other people on the computer?
- How can I collaborate with others in the digital world responsibly?
- How can I use Google Docs to type assignments?
- How can I change the font, size and style of my writing on the computer?

- How can I utilize Google Slides to create a presentation? (creative thinking) -How to navigate Google Classroom and Google Meet?
- How can I create a safe password?
- How can students sequence steps as it applies to coding?
- How can I utilize coding websites to help me become a 21st century global-minded individual?

Enduring Understanding

- Technology impacts our lives and will be part of our future educational experiences.
- Being a good digital citizen is an essential quality of being a productive and successful citizen in the 21st century and beyond.
- Online communication and collaboration will be a key component of future and career choices of students.
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- Typing will help students to successfully communicate more efficiently.
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- Navigate the digital world to become healthy, productive, 21st century global-minded individuals.
- Participate in a diverse online community that incorporates perspectives where students can learn from different cultures, ethnicities, abilities and genders.

New Jersey Student Learning Standard	Core Content Objective		Instructional Actions	
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<p><u>Targeted NJ Core Curriculum Content Standards</u></p> <p>8.1.2.CS.1, 8.1.2.CS.2, 8.1.2.CS.3, 8.1.2.NI.1, 8.1.2.NI.2, 8.1.2.NI.3, 8.1.2.NI.4, 8.1.2.IC.1, 8.1.2.DA.2, 8.1.2.AP., 8.1.2.AP.3, 8.1.2.AP.4, 8.1.2.AP.5, 8.1.2.AP.6, 8.2.2.ED.1, 8.2.2.ED.2, 8.2.2.ED.3, 8.2.2.ED.4, 8.2.2.ITH.1, 8.2.2.ITH.2, 8.2.2.ITH.3, 8.2.2.ITH.4, 8.2.2.ITH.5, 8.2.2.NT.1, 8.2.2.NT.2, 8.2.2.ETW.1, 8.2.2.ETW.2, 8.2.2.ETW.3, 8.2.2.ETW.4, 8.2.2.EC.1</p> <p>21st Century Skills: - communication through digital methods - computing technology has changed the way people live and work - engineering design is a creative process - following simple sequence of events to complete tasks</p> <p>Technology: chromebooks promethean board</p>	<p>Following Directions</p> <p>Listening</p> <p>Computer Care</p> <p>Technology Then and Now</p> <p>Technology Effects on our World</p> <p>Computer Basics</p> <p>Mouse- fine motor skills</p> <p>Keyboarding</p> <p>Google</p> <p>Google Drive</p> <p>Google Docs</p> <p>Google Slides</p> <p>Google Meet</p> <p>Google Classroom</p> <p>Digital Citizenship</p> <p>Internet Safety</p> <p>Password Safety</p> <p>Coding</p>	<p>Computer Basics</p> <p>-Computer Lab procedures - Acceptable Behavior at the computer</p> <p>-Identifying digital citizenship while utilizing computer programs</p> <p>-Identifying computer parts and their uses</p> <p>-Proper use and care of computers</p> <p>-Navigate the basic function of a browser</p> <p>- Utilize the correct typing strategies to type the home row, top row, and bottom row keys.</p> <p>-Find numerals on a QWERTY keyboard.</p> <p>-Utilize the spacebar, backspace, delete, and shift keys.</p> <p>-Utilizing the font, size and style for typing in computer programs</p> <p>-Review drop, drag and copy and paste techniques. - Continue to type words and sentences</p> <p>-Continue to show good digital citizenship</p> <p>-practice online safety</p> <p>-practice password safety - practice the importance of media balance</p> <p>-learn to code programs</p>	<ul style="list-style-type: none"> - Websites/Apps - Computer Games: - Typing Club - Starfall.com - abcy.com - PBS Kids - storylineonline.net - seussville.com - bbc.co.uk - arcademics.com - prodigy - kahoot - YouTube - commonsense.org - Google Docs and Slides - Google Classroom - nitrotype.com - coding with roly - blockly - hour of code 	<p>Summative:</p> <p>- logging into Typing Club - using the keyboard to find the letters in their name using the keyboard to find the numerals 1, 2, and 3 for their password</p> <p>-placement of their fingers on typing activities (home row, top row and bottom row) -Student responses - Student completion of... starfall and abcy games, typing club lessons, bbc lessons</p> <p>-Typing Club scores home row- Lesson 1-9 Top row- 10-19</p> <p>Bottom row- 20-30 - completion of videos and quizzes for digital citizenship</p> <p>Formative:</p> <p>-Google Docs assignments - Google Slides projects - teacher observations of students' being good digital citizens including media balance</p> <p>-password safety</p> <p>-completion of coding games</p>
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Online Resources / Technology:	Chromebooks, Smaller mice, Headphones, Promethean Board, Websites/Apps Computer Games:
	<ul style="list-style-type: none"> - Typing Club - Starfall.com - abcy.com - PBS Kids - storylineonline.net - seussville.com - bbc.co.uk - prodigy - kahoot - YouTube - academics.com - commonsense.org - Google Classroom - Google Docs and Slides - nitrotype.com - coding with roly - blockly
Primary Teacher Resources:	Chromebooks, mice, Headphones, Promethean Board
Modifications:	<p><i>Special Education: Extra time, visuals, shortened assignments, different size mice</i></p> <p><i>504 Students: visuals, extra time, shortened assignments</i></p> <p><i>ELL Students: Visuals, google translator</i></p> <p><i>Gifted and Talented Students: Extra Websites for extra practice (extra bbc lessons and abcy typing games), faster pacing</i></p>

Pacing Guide: April-June (Fourth Quarter)
Unit 4: Computer Science and Design Thinking

Essential Questions:

- What is technology and how does it work and impact the lives of ourselves and others in our world? -How has technology changed and made our life easier?
- How should we correctly handle the computers?
- How to turn on and log into the computer?
- What is acceptable computer behavior?
- How does a mouse and touchpad work?
- What is a computer made up of and how has the software and hardware changed?
- How can I make sure my computer is safely connected to the internet? -What is a browser and how do you navigate through a browser? (google) -What is a keyboard and how do students utilize it to type their name?
- How can a student utilize the keyboard to log into a program called Typing Club?
- What fingers should students use to type the home, row, top row, and bottom row keys? -What does the spacebar and backspace keys do?
- How can I make letters capital?
- How can I highlight words that I typed?
- How can I copy and paste and drag and drop by utilizing the mouse or touchpad?
- How can I print?
- How can I show good digital citizenship?
- How can I safely connect with other people on the computer?
- How can I collaborate with others in the digital world responsibly?
- How can I use Google Docs to type assignments?
- How can I change the font, size and style of my writing on the computer? -How can I utilize Google Slides to create a presentation? (creative thinking) -How to navigate Google Classroom and Google Meet?
- How can I use Google Sheets to analyze data?
- How can I create a safe password?
- How can students sequence steps as it applies to coding?
- How can I utilize coding websites to help me become a 21st century global-minded individual?

Enduring Understanding

- Technology impacts our lives and will be part of our future educational experiences.
- Being a good digital citizen is an essential quality of being a productive and successful citizen in the 21st century and beyond.
- Online communication and collaboration will be a key component of future and career choices of students.
- Utilizing digital tools such as Google Apps to communicate thoughts, research and ideas effectively with other students in the classroom. -Utilizing different computer programs is a key concept in being a successful student.
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- Communicate effectively and responsibly by utilizing digital tools.
- Coding will help students be successful in the STEAM based careers and or jobs they may attain.
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<p>-following simple sequence of events to complete tasks</p> <p>Technology: chromebooks promethean board</p>	<p>Coding</p>	<p>citizenship</p> <ul style="list-style-type: none"> -practice online safety -practice password safety - practice the importance of media balance -using numbers (data) to compare patterns -data analysis in Google Sheets -learn to code programs 	<p>students' being good digital citizens including media balance</p> <ul style="list-style-type: none"> -password safety -completion of coding games
<p>Online Resources / Technology:</p>	<p>Chromebooks, Smaller mice, Headphones, Promethean Board, Websites/Apps</p> <p>Computer Games:</p> <ul style="list-style-type: none"> - Typing Club - Starfall.com - abcy.com - PBS Kids - storylineonline.net - seussville.com - bbc.co.uk - prodigy - kahoot - arcademics.com - engineering.com - YouTube - commonsense.org - Google Classroom - Google Docs, Slides and Sheets 		

	<ul style="list-style-type: none"> - nitrotype.com - coding with roly - blockly - hour of code
Primary Teacher Resources:	Chromebooks, mice, Headphones, Promethean Board
Modifications:	<p><i>Special Education: Extra time, visuals, shortened assignments, different size mouse</i></p> <p><i>504 Students: visuals, extra time, shortened assignments</i></p> <p><i>ELL Students: Visuals, google translator</i></p> <p><i>Gifted and Talented Students: Extra Websites for extra practice (extra bbc lessons and abcya typing games), faster pacing</i></p>