



Plymouth Public Schools Elementary Technology Units of Study Overview



	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Unit 1	Introductory Class: Mouse Skills	Introductory Class: Keyboard and Mouse Skills	Introductory Class: Sharing Ideas using word clouds	Introductory Class: Communicating and Sharing Ideas using Google Slides	Introductory Class: Communicating and Sharing Ideas using Google Drawings	Introductory Class: Communicating and sharing Ideas using advanced word clouds
Essential Question	What are the expected behaviors and routines in technology class?	What are the expected behaviors and routines in technology class?	How can we use a mouse and keyboard to communicate ideas and create?	How can programs such as Google Slides help you share ideas and collaborate with others?	How can programs such as Google Drawings help you share ideas and collaborate?	How can digital tools such as word clouds help you share and publish ideas?
Unit 2	Mouse Control Part 2	Mouse Control Part 2	Internet Safety	Internet Safety	Internet Safety	Internet Safety
Essential Question	What is a mouse and what do we use it for?	What is a mouse and what do we use it for?	Can you name some ways to use the Internet safely and responsibly?	Can you name some ways to use the Internet safely and responsibly?	Can you name some ways to use the Internet safely and responsibly?	Can you name some ways to use the Internet safely and responsibly?
Unit 3	Keyboarding Intro to Wixie	Internet Safety	Internet Safety	Internet Safety/ Social Media	Internet Safety/ Social Media	Internet Safety/ Social Media
Essential Question	What is a keyboard and what do we use it for?	What is it important to be a good digital citizen?	How can you stay safe online and why is it important to be a good digital citizen?	How can you stay safe online and why is it important to be a good digital citizen?	How can you stay safe online and why is it important to be a good digital citizen?	How can you make information useful by creating an infographic?
Unit 4	Keyboarding Wixie - Self Portrait	Computing Devices Wixe	Word Processing	Intro to Google Drive <u>Individual Accounts</u>	Google Docs/ Drive Editing and Revising	Blogging and Collaborating Google Classroom
Essential Question	What is the purpose of a keyboard?	What is the purpose of input and output computer devices?	How can students use Google Docs to work collaboratively?	How can students organize and share work using Google Drive?	How can students collaborate in Google Drive?	How does Blogging connect students?
Unit 5	Word Processing Learning the Keyboard and Alphabet	Word Processing Adding text and images	Word Processing Using features	Editing and Revising <u>Google Docs</u> Read & Write for Google	Intermediate Editing and Revising Research Tool/Copyright Read & Write for Google	Advanced Editing and Revising Research Tool/Copyright Read & Write for Google

Essential Question	How does word processing communicate ideas?	How can we use a digital tool to inform, persuade, or entertain?	How can we use digital tools to create, review, and revise simple Google Docs?	How do we use digital tools to manipulate and publish Google Docs?	Why do we need to cite digital resources?	Why do we need to cite digital resources? How do we cite text and non-text online resources?
Unit 6	Data Analysis/ Pictographs Pictographs in Wixie	Data Analysis/ Pictographs Brainpop & Wixie	Data Analysis/ Bar Graphs Make a Graph	Data Analysis/ Spreadsheets Graphing Data in Google Sheets	Data Analysis/ Spreadsheets Graphing Data in Google Sheets	Data Analysis/ Spreadsheets Using Math formulas for calculations
Essential Question	What is the purpose of pictographs?	How do pictographs create visualizations of information?	What information do we learn from a bar graph?	How do spreadsheets collect and manipulate data?	How do spreadsheets collect and manipulate data?	How do we use spreadsheets to answer a question?
Unit 7	Exploring Websites Recognize an ad Purpose of a website	Exploring Websites Understanding purpose of websites	Evaluating Websites Review Websites	Search Engines Introducing key features of searching	Search Engines Finding topics most effectively	Search Engines Database VS Search engine
Essential Question	Why are the features on a typical website?	Do different websites have different purposes?	Why do we need to evaluate the authenticity of websites?	How can a search engine help you locate information?	How does your word choice impact your search results?	How can a database and search engine help you locate information?
Unit 8	Hour of Code Introduction to Logic based thinking	Hour of Code Introduction to Logic based thinking	Hour of Code Introduction to Coding	Hour of Code Coding Basics	Hour of Code Writing multi-line/step code	Hour of Code Problem Solving
Essential Question	Why do people learn to code?	Why do people learn to code?	Why do people learn to code?	How can coding help you solve a problem or complete a task?	How can coding help you solve a problem or complete a task?	How can coding help you solve a problem or complete a task?
Unit 9	Databases Enter Keywords/ WorldBook Online	Databases Enter Keywords/ WorldBook Online	Search Engines Enter Keywords/ Child-Safe Kids Sites	Evaluating Websites Determine efficacy/ validity	Evaluating Websites Determine efficacy/ validity	Evaluating Websites Researching topic of choice and evaluating results
Essential Question	How can a search engine help us locate information?	How can a search engine help us locate information?	How can a search engine help us locate information?	How does evaluating websites help us find authentic information?	How do we determine if a website has valid information?	How do we determine if a website has valid information?
Unit 10	Digital Storytelling					
Essential Question	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?	How can digital tools allow you to create, edit, collaborate, and share your stories or ideas?

Unit 11	<u>Digital Storytelling Part 2</u>	<u>Digital Storytelling Part 2</u>	<u>Digital Storytelling Part 2</u>	<u>Simulations</u> Introduction to Sketchup	<u>Simulations</u> Introduction to Sketchup	<u>Simulations</u> Introduction to Sketchup
Essential Question	How can digital tools allow you to make revisions, collaborate, and publish your stories or ideas?	How can digital tools allow you to make revisions, collaborate, and publish your stories or ideas?	How can digital tools allow you to make revisions, collaborate, and publish your stories or ideas?	How can digital simulations and models help you create and identify features and data?	How can digital simulations and models help you create and identify features and data?	How can digital simulations and models help you create and identify features and data?
Unit 12	<u>Internet Safety</u>	<u>Internet Safety</u>	<u>Digital Storytelling</u>	<u>Google Classroom</u> Blogging and Commenting Etiquette	<u>Simulations Sketch Up</u> (Continuation of Project & Sharing)	<u>Simulations Sketch Up</u> (Continuation of Project & Sharing)
Essential Question	Why is important to follow the rules of Internet Safety?	Why is important to follow the rules of Internet Safety?	How can blogging help you obtain, collaborate and share ideas and information?	How can blogging help you obtain, collaborate and share ideas and information?	How can digital simulations and models help you create and identify features and data?	How can digital simulations and models help you create and identify features and data?
Unit 13	<u>Introduction to Scratch</u>	<u>Introduction to Scratch</u>	<u>Introduction to Scratch</u>	<u>All About Me: Scratch</u>	<u>Using Scratch for Storytelling</u>	<u>Using Scratch to Create a Game</u>
Essential Question	How do people program computers?	How do people program computers?	How do people program computers?	How can you create a digital artifact using a programming language?	How can you create a digital story using a programming language?	How can you create a game using a programming language?
Unit 14	<u>Digital Storytelling/ Introduction to Scratch Part 2.</u>	<u>Digital Storytelling/ Introduction to Scratch Part 2</u>	<u>Digital Storytelling/ Introduction to Scratch Part 2</u>	<u>All About Me: Scratch Part 2</u>	<u>Using Scratch for Storytelling Part 2</u>	<u>Using Scratch to Create a Game Part 2</u>
Essential Question	How can you create a digital story by coding?	How can you create a digital story by coding?	How can you create a digital story by coding?	How can you create a digital story by coding?	How can you create a digital story by coding?	How can you create a digital story by coding?
Unit 15	<u>Mapping Tools Wixie</u>	<u>Mapping Tools Wixie</u>	<u>Google MyMaps/Tour Builder/Google Earth</u> Neighborhood	<u>Google Tour Builder Research Project</u> Plymouth, Massachusetts	<u>Google Tour Builder Research Project</u> U.S. Regions/ Washington DC	<u>Google Tour Builder Research Project</u> American Revolution/ Colonial Times
Essential Question	How can digital tools represent real-life systems and communicate key ideas?	How can digital tools represent real-life systems and communicate key ideas?	How can digital tools represent real-life systems and communicate key ideas?	How does simulation software allow you to communicate key ideas?	How does simulation software allow you to communicate key ideas?	How does simulation software allow you to communicate key ideas?

Unit 16	<u>Screencasting</u>	<u>Screencasting</u>	<u>Screencasting</u>	<u>Google Tour Builder Research Project Part 2</u>	<u>Google Tour Builder Research Project Part 2</u>	<u>Google Tour Builder Research Project Part 2</u>
<i>Essential Question</i>	How can we use technology to communicate and share with others?	How can we use technology to communicate and share with others?	How can we use technology to communicate and share with others?	How can we use technology to communicate, research and share with others?	How can we use technology to communicate, research and share with others?	How can we use technology to communicate, research and share with others?
Unit 17	<u>Technology in the Classroom</u>	<u>Technology in our Homes</u>	<u>Technology in our Community</u>	<u>Screencasting</u>	<u>Screencasting</u>	<u>Screencasting</u>
<i>Essential Question</i>	How does the technology in our school assist with our learning?	How does technology help people in their daily work and personal lives?	How can we use technology responsibly to help people in our community?	How can we use technology to communicate and publish ideas?	How can we use technology to communicate and publish ideas?	How can we use technology to communicate and publish ideas?
Unit 18	Catch Up Lesson Students will complete any units missed throughout the year.	Catch Up Lesson Students will complete any units missed throughout the year.	Catch Up Lesson Students will complete any units missed throughout the year.	Catch Up Lesson Students will complete any units missed throughout the year.	Catch Up Lesson Students will complete any units missed throughout the year.	Catch Up Lesson Students will complete any units missed throughout the year.
Unit 19	<u>GENIUS HOUR</u>					
<i>Essential Question</i>	How can digital tools promote creativity while allowing us to share information?	How can digital tools promote creativity while allowing us to share information?	How can digital tools promote creativity while allowing us to share information?	How can digital tools promote creativity while allowing us to share information?	How can digital tools promote creativity while allowing us to share information?	How can digital tools promote creativity while allowing us to share information?