Mount Pleasant CSD Technology Benchmarks

Common Core Technology Integration

This document aligns the International Society for Technology in Education (ISTE) Standards with the Common Core State Standards, grade-level benchmarks, and suggested technology resources to support critical thinking skills in the 21st Century.

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Mount Pleasant CSD Technology Benchmarks

Common Core Technology Integration

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(Adopted and Modified with Permission from USD 473 Technology Plan/Common Core Technology Integration)

Fifth Grade

Mathematical Practices 4: Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace.		
Technology Standards	**Technology Integration**	**Suggested Resources**
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. 3. *Research and Information Fluency* Students apply digital tools to gather, evaluate, and use information. Students: 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. 6. *Technology Operations and Concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will use technology to solve real world math problems. • Use graphic mapping software • Use cameras to act out and demonstrate problem solving techniques.	• Calculator • Excel • Flip Cameras • Diagram.ly • Google Forms • Google Docs

Sixth Grade

Common Core Reading for Information Standard 7: Integrate information presented in different media or formats (e.g. visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.
Common Core Speaking and Listening Standard 5: Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.
Common Core Reading/History Standard 7: Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.

Technology Standards	Technology Integration	Suggested Resources
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. 3. *Research and Information Fluency* Students apply digital tools to gather, evaluate, and use information. Students: 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. *6. Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	● Select and use the appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. ● Utilize digital presentation software to integrate different types of media into a document. ● Use an online tool to integrate voice and pictures into a multimedia presentation. ● Gather data, examine patterns, and apply information for decision making using digital tools and resources. ● Utilize spreadsheet software to create digital graphs and charts.	● Word/Google Document ● Excel/Google Spreadsheet ● PowerPoint/Google Presentation ● Publisher ● Flip Video Cameras ● iPads ● Windows Live Movie Maker ● Web 2.0 (e.g. VoiceThread, Animoto, Glogster, Prezi)

Sixth Grade

Common Core Writing Standard 2a: Introduce a topic; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.
Common Core Writing Standard 6: Use technology, including the Internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of three pages in a single sitting.
Common Core Writing/History, Science, & Technology Standard 6: Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.

Technology Standards	Technology Integration	Suggested Resources
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 5. *Digital citizenship* Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Utilize word processing software to learn the basic formatting tools. (margins, spacing, styles, fonts, etc.) • Students will use typing skills and appropriate editing to produce and publish a paper complete with bibliography • With teacher guidance, students will extend the use of bibliographies to a larger variety of sources by utilizing online note-taking and bibliographical help sites. • Teachers will introduce students to Google Drive to allow students to collaborate online. • Demonstrate creativity by using multiple resources and formats. • Students will be introduced to the social implications of producing their works online. • Apply safety precautions necessary when using online resources such as (personal information, passwords, etc.).	• Word/Google Document • Excel/Google Spreadsheet • PowerPoint/Google Presentation • Publisher • Web 2.0 tools (i.e. Animoto, Blogger, Glogster, Prezi, Wikispaces) • Noodletools

Sixth Grade

Common Core Writing Standard 8: Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources.
Common Core Writing/History, Science, and Technology Standard 8: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.

Technology Standards	Technology Integration	Suggested Resources

3. *Research and information fluency*
Students apply digital tools to gather, evaluate, and use information
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.
5. *Digital citizenship*
Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.
	• Decide what information is needed.
	• Uses technology to locate, collect, and evaluation information from a variety of sources.
	• Demonstrates knowledge of different online search strategies (advanced search, Boolean search, etc.)
	• Understands multiple resources must be consulted to verify the accuracy, relevance and comprehensiveness of information.
	• Discusses effective ways to identify bogus websites.
	• Understands and recognizes the use of bias as it is used in books and online sources.
	• Discusses key concepts of intellectual property including ownership of technology and copyright; discusses consequences of violating another's intellectual property rights.
		• School Library resources
		  ○ Library catalog
		  ○ Subscription databases
		  ○ Follett eBooks
		  ○ Gale eBooks
		• Google Advanced Search
		• Boolify
		• Noodletools
		• Purdue OWL Formatting and Style Guide

Sixth Grade

Mathematical Practices 1: Make sense of problems and persevere in solving them.
Mathematical Practices 2: Reason abstractly and quantitatively.
Mathematical Practices 3: Construct viable arguments and critique the reasoning of others.
Mathematical Practices 5: Use appropriate tools strategically.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will gather data, examine patterns, and apply information for decision making using digital tools and resources. • Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks to solve problems. • Students will develop a problem solving portfolio where they solve various problems using their appropriate mathematical level, using multiple perspectives to solve a problem focused on several problem solving strategies throughout the course of the year. • Students will develop skills to argue and persuade others on the process used to solve their problem.	• Calculator • Wikispaces • Google Drive

Sixth Grade

Mathematical Practices 4: Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace.
Mathematical Practices 5: Use appropriate tools strategically. Mathematically proficient students consider the available tools when solving a mathematical problem.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will gather data, examine patterns and apply information for decision making using digital tools and resources. • Students will employ data collections technology to gather, view, analyze and report results for content related problems. • Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. • Problem Solving may not involve the outside world, were mathematical modeling begins with a situation in the real world for which we wish to understand.	• Calculator • Tinker Plots • Venier Probes • Geometer's Sketchpad

Seventh Grade

Common Core Reading for Literature Standard 7: Compare and contrast a written story, drama, or poem to its audio, filmed, staged, or multimedia version, analyzing the effects of techniques, unique to each medium (e.g., lighting, sound, color, or camera focus and angles in a film).		
Technology Standards	**Technology Integration**	**Suggested Resources**
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 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. 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.	● Seeks information from diverse resources and multiple perspectives to gain full comprehension. ● Applies knowledge from visual messages received after viewing a variety of different formats and styles in multimedia presentations.	● School Library resources ○ Library catalog ○ Follett eBooks ● Mount Pleasant Public Library ● Westchester Library System OverDrive (ebooks/audiobooks) ● Catalist Digital (audiobooks)

Seventh Grade

Common Core Reading/History Standard 7: Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.
Common Core Speaking & Listening Standard 5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.

Technology Standards	Technology Integration	Suggested Resources
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Select and use the appropriate tools and digital resources to accomplish a variety of tasks • Utilizes a word processing tool to organize paper with correct page layout. • Utilizes a spreadsheet tool to create graphs and charts to integrate into a paper or multimedia project. • Utilizes presentation software to create a multimedia presentation.	• Word/Google Document • Excel/Google Spreadsheet • PowerPoint/Google Presentation • Publisher • Flip Video Camera • iPads • Windows Live Movie Maker • Web 2.0 (e.g. VoiceThread, Animoto, Glogster, Prezi)

Seventh Grade

Common Core Writing Standard 6 & Common Core Writing/History, Science & Technology 6: Use technology, including the Internet, to produce and publish writing and link to and cite sources as well as to interact and collaborate with others, including linking to and citing sources.
Common Core Writing Standard 2a: Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.

Technology Standards	Technology Integration	Suggested Resources
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 5. *Digital citizenship* Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Works collaboratively on a unit of study using publication software • Creates hyperlinks that link directly from their paper to the correct online source. • Understands how the use of technology can affect humans in various ways including their safety, comfort, choices, and attitudes. (news comments, blogs, emails, propaganda) • Demonstrates knowledge of social, ethical, and human issues associated with technology (Cyberbullying, social media awareness, privacy laws, etc.)	• Word/Google Document • Excel/Google Spreadsheet • PowerPoint/Google Presentation • Publisher • Web 2.0 tools (i.e. Animoto, Blogger, Glogster, Prezi, Wikispaces) • Noodletools

Seventh Grade

Common Core Writing Standard 8 & Common Core Writing/History, Science & Technology Standard 8: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.		
Technology Standards	**Technology Integration**	**Suggested Resources**

3. *Research and information fluency*
Students apply digital tools to gather, evaluate, and use information
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.
5. *Digital citizenship*
Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.
	• Use all available resources, including online databases, print and electronic books, to locate and cite information correctly.
	• Performs advanced search techniques and queries online
	• Understands and effectively uses a wide-range of different databases to find information.
	• Recognize facts, opinions, and point of view and sometimes determine when it is appropriate in one's own work.
	• Understands the difference between a primary and a secondary source found online.
	• Finds, evaluates, and selects appropriate sources based on type of question to answer.
	• Makes sense of information gathered from diverse sources by identifying misconceptions, main and supporting ideas, conflicting information, and point of view or bias.
	• Utilizes a research process by applying critical thinking skills (analysis, synthesis, evaluation, organization) in order to construct new understandings and draw conclusions.
	• Demonstrates adaptability by changing the inquiry focus, questions, resources, or strategies when necessary to achieve success.
		• School Library resources
		  ○ Library catalog
		  ○ Subscription databases
		  ○ Follett eBooks
		  ○ Gale eBooks
		• Google Advanced Search
		• Boolify
		• Noodletools
		• Purdue OWL Formatting and Style Guide

Seventh Grade

Common Core Reading/Science and Technology Standard 9: Compare and contrast the information gained from experiments, simulations, video or multimedia sources with that gained from reading a text on the same topic.		
Technology Standards	**Technology Integration**	**Suggested Resources**
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 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.	• Use a variety of online and digital reference materials to enhance understanding • Engages in virtual learning activities (e.g., virtual museum tours, simulations, and/or Skype)	• Virtual Tours • Google Earth • Webquests • ePals • Skype

Seventh Grade

Mathematical Practices 1: Make sense of problems and persevere in solving them.
Mathematical Practices 2: Reason abstractly and quantitatively.
Mathematical Practices 3: Construct viable arguments and critique the reasoning of others.
Mathematical Practices 5: Use appropriate tools strategically.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	● Students will gather data, examine patterns, and apply information for decision making using digital tools and resoures. ● Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks to solve problems. ● Students will develop a problem solving portfolio where they solve various problems using their appropriate mathematical level, using multiple perspectives to solve a problem focused on several problem solving strategies throughout the course of the year. ● Students will develop skills to argue and persuade others on the process used to solve their problem.	● Calculator ● Wikispaces ● Google Drive

Seventh Grade

Mathematical Practices 4: Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace.
Mathematical Practices 5: Use appropriate tools strategically. Mathematically proficient students consider the available tools when solving a mathematical problem.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will gather data, examine patterns and apply information for decision making using digital tools and resources. • Students will employ data collections technology such as probes, handheld devices, and geographic mapping software to gather, view, analyze and report results for content related problems. • Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. • Use technology to observe, simulate, survey and experiment with recorded data. • Problem Solving may not involve the outside world, were mathematical modeling begins with a situation in the real world for which we wish to understand.	• Calculator • Tinker Plots • Venier Probes • Geometer's Sketchpad

Eighth Grade

Common Core Writing Standard 2a: Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.
Common Core Writing Standard 6: Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas efficiently as well as to interact and collaborate with others.
Common Core Writing/History, Science and Tech. Standard 6: Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.

Technology Standards	Technology Integration	Suggested Resources
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 5. *Digital citizenship* Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will select and use the appropriate tools and digital resources to produce and publish a document using all the correct formatting skills required. • Create documents (e.g., letters, memos, reports) using existing forms and templates. • Employ word processing utility tools (e.g., spell checker, grammar checker, thesaurus). • Format text using basic and more advanced formatting functions (e.g., headers, footers, caps) • Retrieve existing documents and safeguard using name and save functions. • Create new word processing forms, style sheets, and templates. • Enhance publications using different fonts, styles, attributes, justification, etc. • Enhance publications using paint and draw functions. • Format new desktop publishing files. • Output desktop publishing files.	• Word/Google Document • Excel/Google Spreadsheet • PowerPoint/Google Presentation • Publisher • Flip Video Cameras • iPads • Windows Live Movie Maker • Web 2.0 tools (i.e. Animoto, Blogger, Glogster, Prezi, Wikispaces)

Eighth Grade

Common Core Reading in History Standard 7: Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts. **Common Core Speaking and Listening Standard 5**: Include multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.		
Technology Standards	**Technology Integration**	**Suggested Resources**
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will use online and digital materials to enhance understanding in presentations. • Place graphics in document. • Create computer presentation and handouts in accordance with basic principles of graphics design and visual communication. • Independently use a variety of primary and secondary sources found online, in a variety of formats related to a given content area to construct a synthesis project, such as a poster, handout, brochure, essay, or an electronic presentation.	• Google Images • Word/Google Document • Excel/Google Spreadsheet • PowerPoint/Google Presentation • Publisher • Windows Live Movie Maker • Flip Video Cameras • iPads • Web 2.0 (e.g. VoiceThread, Animoto, Glogster, Prezi)

Eighth Grade

Common Core Writing Standard 8: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
Common Core Writing/History, Science & Tech Standard 8: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.

Technology Standards	Technology Integration	Suggested Resources
3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 5. *Digital citizenship* Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.	● Students independently access and use information from a wide variety of online sources. ● Independently finds and uses information from a variety of sources and the accompanying technology (e.g., school library media center resources, public library including interlibrary loan, world wide web searches, and government agencies) to find specific information needed. ● Independently knows where to start research based on what type of information is needed. ● Explore browser features and understand how to use them to help access information. ● Understands how to bookmark web addresses ● Navigate web sites using software function (e.g., Forward, Back, Go To, Bookmarks) ● Add plug-ins and helpers to the web browser. ● Independently evaluates information found in selected sources on the basis of accuracy, validity, bias, appropriateness to needs, and social and cultural context. ● Demonstrate adaptability by changing the inquiry focus, questions, resources, or strategies when necessary to achieve success. ● Follows ethical and legal guidelines in gathering and using information.	● School Library resources ○ Library catalog ○ Subscription databases ○ Follett eBooks ○ Gale eBooks ● Mount Pleasant Public Library ● Google Advanced Search ● Boolify ● Noodletools ● Purdue OWL Formatting and Style Guide

Eighth Grade

Common Core Reading for Information Standard 7: Evaluate the advantages and disadvantages of using different mediums (e.g., print or digital text, video, multimedia) to present a particular topic or idea.		
Technology Standards	**Technology Integration**	**Suggested Resources**
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. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will explore and use a wide range of technology tools available. • Understand how to send and access email messages • Create email messages in accordance with established business standards (e.g., grammar, word usage, spelling, sentence structure, clarity, etc.) • Demonstrate knowledge of email etiquette • Understand how to attach documents to messages. • Understand how to save email attachments. • Demonstrate knowledge of email contamination protection strategies. • Manage daily/weekly/monthly schedule using applications such as Google Calendar. • Apply basic commands of operating system software and appropriate file and disk management techniques. • Ensure compliance with security rules, regulations, and codes and security procedures in accordance with school policy. • Understand how to provide for user authentication and maintain confidentiality (e.g., assign passwords, access level).	• Email • Google Drive

Eighth Grade

Common Core Writing & Reading for Literacy Standards in Science & Technology 4: Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics. **Common Core Writing and Reading Literacy Standards for Science & Technology 7**: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).		
Technology Standards	**Technology Integration**	**Suggested Resources**
6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	● Demonstrate knowledge of the system utilities used for file management. ● Create, edit, save, retrieve and print spreadsheets. ● Create charts and graphs from spreadsheets and incorporate them to enhance presentations. ● Input/process data using spreadsheet functions while using simple formulas. ● Identify hardware items that support presentation software (e.g., scanners, digital cameras, printers, and projection systems). ● Print a single slide, an entire presentation, an outline, and notes. ● Run slide shows manually and automatically when given a presentation. ● Locate and replace data using search and replace functions.	● Excel/Google Spreadsheet ● PowerPoint/Google Presentation ● Word/Google Document

Eighth Grade

Mathematical Practices 1: Make sense of problems and persevere in solving them.
Mathematical Practices 2: Reason abstractly and quantitatively.
Mathematical Practices 3: Construct viable arguments and critique the reasoning of others.
Mathematical Practices 5: Use appropriate tools strategically.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will gather data, examine patterns, and apply information for decision making using digital tools and resources. • Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks to solve problems. • Students will develop a problem solving portfolio where they solve various problems using their appropriate mathematical level, using multiple perspectives to solve a problem focused on several problem solving strategies throughout the course of the year. • Students will develop skills to argue and persuade others on the process used to solve their problem.	• Graphing Calculator • Wikispaces • Google Drive

Eighth Grade

Mathematical Practices 4: Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace.
Mathematical Practices 5: Use appropriate tools strategically. Mathematically proficient students consider the available tools when solving a mathematical problem.

Technology Standards	Technology Integration	Suggested Resources
1. *Creativity and innovation* Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. 3. *Research and information fluency* Students apply digital tools to gather, evaluate, and use information 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. 6. *Technology operations and concepts* Students demonstrate a sound understanding of technology concepts, systems, and operations.	• Students will gather data, examine patterns and apply information for decision making using digital tools and resources. • Students will employ data collections technology such as probes, handheld devices, and geographic mapping software to gather, view, analyze and report results for content related problems. • Students will select and use the appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. • Use technology to observe, simulate, survey and experiment with recorded data. • Problem Solving may not involve the outside world, were mathematical modeling begins with a situation in the real world for which we wish to understand.	• Graphing Calculator • Tinker Plots • Venier Probes • Geometer's Sketchpad