# MBUSD 3rd Grade Technology Standards Implementation Guide

January, 2019

| Technology Standard | Subtopic | What the Students Will Do | Apps and Resources |
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| **Creativity and Innovation:** Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. | Digital Books | Create a writing project using an online or app based digital book that includes text and text features (CCSS W6, W10, SL2, SL5) | Creative Book Builder, Book Creator, Educreations, ShowMe, Google Slides |
| | Digital Art | Include digital illustrations to emphasize or enhance certain facts or details when writing informative/explanatory texts (SL 3.5) | Doodle Buddy, Typic, Camera, Notability, Paper 53, Comic Touch |
| | Video & Audio Editing | • Create an engaging audio recording of a story or poem that demonstrates fluid reading at an understandable pace; add visual displays to emphasize or enhance certain facts or details (SL 3.5), for example to develop models of organisms' life cycles (NGSS 3-LS1)<br>• Create a project that uses text and graphics, audio, and video (with proper citations) to communicate an idea, such as the results of an investigation on Forces and Interactions (NGSS 3-PS2) | Camera, iMovie, Story Kit, Story Kit Tutorial, Shadow Puppet Edu, Voice Recorder, Educreations, ChatterPix Kids, Stop Motion Movie<br><br>ChatterPix Kids:  American Hero Videos  Biography Lesson Plan |
| | Publishing | With guidance and support from adults, use technology to produce and publish a written story or essay (using keyboarding skills) as well as to interact and collaborate with others. (CCSS W 3.6) | Keynote: Biomes, Solar System, Keynote, Pages, Google Docs, Google Site, Creative Book Builder |
| **Communication and Collaboration:** Students use digital media to communicate and work collaboratively, supporting individual learning and contributing to the learning of others. | Web and IOS | Collaborate with one or more students on a document or to define a simple design problem, solutions, and tests in science (NGSS (3-5 ETS1) | Google Docs or Slides, Padlet, Padlet Sample,  FlipGrid, FlipGrid Tutorials, FlipGrid Integration |
| | Blogging | Regularly communicate and share ideas with others using a teacher created and monitored blog (CCSS W6) | Kid Blog, Blog w/Paper, Kid Blog Post |
| | Presentation Tools | • Create several slides and organize them to present research or convey an idea about a topic such as Motion and Stability (NGSS 3-PS2) or Earth and Human Activity (NGSS 3-ESS3) in Science (CCSS W 3.7)<br>• Begin to use a variety of age-appropriate technologies (e.g. drawing program, presentation software and applications) to report on a topic, and communicate and exchange ideas (CCSS SL 3.4)<br>• Begin to use teacher-developed guidelines to evaluate multimedia presentations for organization, content, and presentation. | Keynote, Google Slides, Popplet Lite, Popplet Lite Post, Example: Homophones |
| **Research and Information Fluency:** Students apply digital tools to gather, evaluate, and use | Digital Research Skills | • Use websites, databases, digital images, videos, and eBooks to research topics of interest<br>• Consult digital reference materials to find meanings of key phrases and words | Dictionary, Thesaurus, iBooks, LiveBinder, Quizlet, YouTube, Discovery Education, BrainPop, Google |

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| information. | | ● Obtain and combine information from books and other reliable media to explain phenomena (NGSS 4-ESS3-1) | |
| | Evaluate Internet Resources | Complete Common Sense Media lessons on safe and effective internet searching and utilize internet search criteria when researching | Media *Digital Literacy & Citizenship* iBook--Unit 2, How to Cite a Site  iBook TE |
| | Citation Formats | Provide a list of print and digital sources used to take notes and categorize information (CCSS W.4.8) | Student keep track of sources in Notability, Pages, Google Docs, Keynote, Balloon Stickies app  *Common Sense Media Digital Literacy & Citizenship*: How to Cite a Site Lesson |
| | Content Specific Technology Skills | Interpret information presented visually, orally, or quantitatively via charts, graphs, animations, or interactive Web pages and explain how the information contributes to an understanding of the text (CCSS RI 4.7)  Use Virtual Manipulatives to solve math problems | Safari, Notability, Keynote, Popplet Lite, Idea Sketch, Google Docs, Google Forms, Pages    Houghton-Mifflin Player, Schoolkit, Virtual Manipulatives App (ABCYA.com) |
| **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. | Organizational Tools | Organize ideas for an information report using a mind mapping Web or iPad application | Idea Flip (Idea Sketch), Popplet Lite  Coordinate Grids Lesson Plan |
| | Design Cycle & Project Management | Complete a Project Based Learning/Genius Hour activity, identifying problem or idea, brainstorming solution or process, evaluating reasonableness, and present solution or information  **Programming Patterns** (PLTW) – students learn how to think computationally about a problem. Students then create a tablet game using modular functions and branching logic. | Notability, Keynote, Creative Book Builder, Google Docs, Idea Sketch  Autodesk Inventor, 123D, Popplet Lite, Mindomo, iMovie |
| | Coding & Robotics | ● Create a product using a coding platform  ● Develop a simple robot or use code to command a robot | Scratch, Scratch Jr., Codecademy, Khan Academy, Blockly, Dash & Dot, Code |
| **Digital Citizenship:** Students understand human, cultural, and | Personal Security Online & | ● reflect upon their offline responsibilities.  ● examine their online responsibilities. | *Common Sense Media Digital Literacy & Citizenship*: |

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| societal issues related to technology and practice legal and ethical behavior | Digital Rights and Responsibilities | ● learn that good digital citizens are responsible and respectful in the digital world (and beyond). | Rings of Responsibility<br>The Digital Citizenship Pledge |
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| | Personal Security Online & Digital Rights and Responsibilities | ● learn about the benefits of sharing information online, but also about the safety and security risks of sharing certain types of information.<br>● understand what type of information can put them at risk for identity theft and other scams.<br>● distinguish between personal information, which is safe to share online, and private information, which is unsafe to share. | *Common Sense Media Digital Literacy & Citizenship*:<br>Private and Personal Information |
| | Copyright and Fair Use & Ethical Use Policy | ● experiment with different keyword searches and compare their results.<br>● refine their searches by using multiple words, synonyms, and alternative words and phrases.<br>● draw inferences to explain their search results. | *Common Sense Media Digital Literacy & Citizenship*:<br>The Key to Keywords |
| **Technology Operation and Concepts:** Students demonstrate a sound understanding of technology concepts, systems, and operations. | Navigating in a Virtual Environment | ● Navigate around and paraphrase information presented in digital media and formats (CCSS SL 4.2) | BrainPop Video: Computer History<br><br>Code Studio: Course 2<br><br>Scholastic News and Time for Kids Digital Resources, TweenTribune |
| | Internet Usage | Safely and effectively navigate through websites to locate information | Online Searching Video; Doing Internet Research at the Elementary Level; Google Search Education Lesson Plans |
| | Apps for Education & Cloud Storage | Access GAFE account using username and password.<br>● Navigate in Google Drive and Docs. Share documents with teacher and collaborate with classmates using the comments feature.<br>● Open Keynote and Pages documents to save in Google Drive; Upload photos and/or videos to Drive | Google Apps, Google Drive, Google Docs, Alice Keeler Teacher Tech with resources to Google apps in the classroom, Google Classroom, Classroom Tutorial |
| | Keyboarding | ● Increase speed and accuracy. Type a minimum of one page in a single sitting (W 4.6) | Teaching keyboarding, Recommended keyboarding program: Typing.com |
| | Word Processing | ● Produce, revise, edit, and publish writing using digital resources (CCSS W 5, 6, 10 & L 4) | Word, Pages, Google Docs |

Support 2015-2016 Minimal Technology Expectations

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