Elementary Technology Standards by Grade Level (K-5)

Grade Level	Technology Literate Student	Student Task…	Internet Safety Connection	ELA Common Core Connection
Kindergarten	*With guidance and support:* **Media Literacy -** Illustrate and communicate original ideas and stories using digital tools and media-rich resources **Information Literacy -** Demonstrate the ability to navigate in virtual environments such as electronic books, simulation software and apps **Digital Citizenship -** Demonstrate the safe and cooperative use of technology	**Content Knowledge:** -identify technology by name -engage with literacy apps and websites -read digital books **Procedural Knowledge:** -care for and handle technology appropriately -use keyboard, mouse or other appropriate input device -type name and short sentences with keyboard -manipulate SmartBoard activities **Motivational Engagement – What it looks like…** -use technology for class podcasting, digital storytelling and audio recordings with teacher assistance	**Creative Credit and Copyright/Information Literacy –** *My Creative Work* **Privacy and Security/Digital Footprint and Reputation –** *Follow the Digital Trail* **Relationships and Communication –** *My Online Community*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Add drawings or other visual displays to descriptions as desired to provide additional detail
First Grade	*With guidance and support:* **Media Literacy** 1. Use simulations and graphic organizers to explore and depicts patterns (for example, the life cycle of a moth, the food chain) 2. Communicate about technology using developmentally appropriate and accurate terminology **Information Literacy -** Find and evaluate information using digital resources **Digital Citizenship -** In a collaborative work group, use a variety of technologies to produce a digital presentation or product in a curriculum area	**Content Knowledge:** -engage with literacy apps, websites and online keyboarding sites -read digital books -retrieve information from age appropriate web resources **Procedural Knowledge:** -manipulate SmartBoard activities -type short paragraphs using productivity tools -use finger to draw pictures to provide additional detail for writing or presentations -manipulate pre-created graphic organizers **Motivational Engagement – What it looks like…** -use technology for class podcasting, digital storytelling and audio recordings with teacher assistance	**Internet Safety –** *Going Places Safely* **Information Literacy –** *A-B-C Searching* **Information Literacy –** *Sites I Like* **Privacy and Security –** *Powerful Passwords*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts and feelings
Second Grade	*With guidance and support:* **Media Literacy -** Identify, research and collect data on an issue using digital resources **Information Literacy -** use basic navigational skills when using the web **Digital Citizenship -** Engage in learning activities with learners from other classrooms through electronic means	**Content Knowledge:** -engage with literacy apps, websites and online keyboarding sites -read digital books -retrieve information from age appropriate web resources **Procedural Knowledge:** -manipulate SmartBoard activities -generate writing on the iPad using productivity tools -use graphic organizers, simulations and models to enhance understanding or support writing -participate in video conferencing to communicate with resources outside the classroom **Motivational Engagement – What it looks like:** -use technology for class podcasting, digital	**Privacy and Security –** *Keep It Private* **Cyberbullying/Relationships and Communication –** *Screen Out the Mean* **Information Literacy –** *Using Keywords* **Relationships and Communication -** *Show Respect Online*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Create audio recordings of stories or poems; add drawings to other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings

		storytelling and audio recordings with teacher assistance		
Third Grade	*With guidance and support:* **Media Literacy -** Produce a media rich digital story **Information Literacy** 1. Select and apply digital tools to collect, organize, and analyze data 2. Find and evaluate information using digital resources in groups **Digital Citizenship -** Engage in learning activities with learners from multiple cultures/places through electronic means	**Content Knowledge:** -engage with literacy apps, websites and online keyboarding sites -read digital books **Procedural Knowledge:** -manipulate SmartBoard activities -generate writing on the iPad using productivity tools -use graphic organizers, simulations and models to enhance understanding or support writing -conduct class Internet searches using web based search engines (i.e. Google, Yahoo) -Examining websites for authenticity as a class -participate in video conferencing to communicate with resources outside the classroom **Motivational Engagement – What it looks like...** -use technology for class podcasting, digital storytelling and audio recordings with teacher assistance	**Relationships and Communication/ Self-Image and Identity –** *Rings of Responsibility* **Information Literacy –** *The Key to Keywords* **Relationships and Communication/ Self-Image and Identity –** *Digital Citizenship Pledge* **Relationships and Communication/ Self-Image and Identity –** *Super Digital Citizen* **Cyberbullying/ Relationships and Communication –** *What's Cyberbullying?*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With guidance and support for adults, use technology to produce and publish writing (using keyboarding skills) as well as to interact and collaborate with others **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Create engaging audio recordings of stories or poems that demonstrate fluid reading at an understandable pace; add visual displays when appropriate to emphasize or enhance certain facts or details
Fourth Grade	**Media Literacy -**Use digital imaging technology to modify or create works of art for use in a digital presentation **Information Literacy -** Recognize bias in digital resources while researching and issue, with guidance from the teacher **Digital Citizenship -** Engage in learning activities with learners from multiple cultures/places through email and other electronic means	**Content Knowledge** -read digital books -find and evaluate multiple resources from the Internet on the same topic to determine validity and reliability **Procedural Knowledge** -manipulate and create SmartBoard activities -generate 1 page of writing using productivity tools in one sitting -use video conferencing (i.e. Skype, Facetime) to communicate with resources outside the classroom -use online picture editors to manipulate digital images **Motivational Engagement – What it looks like...** -collaboratively use technology to create multimedia presentations	**Privacy and Security / Information Literacy –** *Private and Personal Information* **Information Literacy –** *You've Won a Prize* **Creative Credit and Copyright / Information Literacy / Self-Image and Identity –** *Picture Perfect* **Internet Safety / Relationships and Communication –** *Talking Safely Online* **Information Literacy –** *Privacy Rules*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With some guidance and support from adults, 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 one page in a single sitting **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes
Fifth Grade	**Media Literacy -** Conceptualize, guide and manage individual or group learning projects using digital planning tools with teacher support **Information Literacy -** Recognize bias in digital resources while researching and	**Content Knowledge** -read digital books -find and evaluate multiple resources from the Internet on the same topic to determine validity and reliability **Procedural Knowledge**	**Internet Safety / Cyberbullying –** *The Power of Words* **Creative Credit and Copyright / Information Literacy –** *Whose Is It, Anyway?*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – With some guidance and support form adults, use technology, including the Internet, to produce and publish writing as well as to

issue, with guidance from the teacher **Digital Citizenship -** Engage in learning activities with learners from multiple cultures/places through email and/or other electronic means	-manipulate and create SmartBoard activities -generate 2 pages of writing using productivity tools in one sitting -use video conferencing (i.e. Skype, Facetime) to communicate with resources outside the classroom -use online picture editors to manipulate digital images **Motivational Engagement – What it looks like…** -collaboratively and independently use technology to create multimedia presentations	**Information Literacy –** *How to Cite a Source* **Information Literacy / Self-Image and Identity –** *Selling Stereotypes*	interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of two pages in a single sitting **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations)** – Include multimedia components (e.g., graphics, sounds) and visual displays in presentations when appropriate to enhance the development of main ideas or themes

*Curriculum is from **Common Sense Media** located at http://www.commonsensemedia.org/educators/scope-and-sequence

Middle School Technology Standards by Grade Level (6-8)

	Technology Literate Student	**Student Task…**	**Internet Safety Connection**	**ELA Common Core Connection**
Sixth Grade	**Media Literacy** 1. Gather data, examine patterns and apply information for decision making using digital tools and resources 2. Select and use the appropriate tools and digital resources to accomplish a variety of tasks and to solve problems **Information Literacy -** Describe and illustrate a content related concept or process using a model, simulation or concept mapping software **Digital Citizenship –**Debate the effect of existing and emerging technologies on individuals, society and the global community	**Content Knowledge** - Find and evaluate websites for use in research **Procedural Knowledge** - Use Moodlerooms with Forums, Chats and Workshops **Motivational Engagement – What it looks like…** -create presentations that include multimedia and interactive links to demonstrate understanding of a concept or topic	**Self-Image and Identity –** *Digital Life 101* **Information Literacy –** *Strategic Searching* **Cyberbullying / Relationships and Communication –** *Cyberbullying: Be Upstanding* **Self-image and Identity –** *Which Me Should I Be?* **Information Literacy –** *Identifying High-Quality Sites*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – 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 **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Include multimedia components (e.g. graphics, images, music, sound) and visual displays in presentations to clarify information
Seventh Grade	**Information Literacy -** Create original animations or videos documenting school, community or local events **Media Literacy -** Evaluate digital resources to determine the credibility of the author and publisher and the timeliness and accuracy of the content **Digital Literacy –** Use collaborative electronic authoring tools to explore common curriculum content from multicultural perspectives with other	**Content Knowledge** – create and edit simple videos -use web search engines to find information around a specific topic **Procedural Knowledge** -evaluate websites for authenticity -collaboratively plan and design and implement an online project around a topic using web tools **Motivational Engagement – What it looks like…**	**Creative Credit and Copyright –** *A Creator's Responsibilities* **Internet Safety / Information Literacy –** *Safe Online Talk* **Privacy and Security / Digital Footprint –** *Trillion Dollar Footprint* **Cyberbullying / Relationships and Communication / Self-image and Identity –** *Reality*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – 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 **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Include multimedia components and visual displays in

	learners	**-** Creating a public service announcement about an issue relevant to teens today	*of Digital Drama* **Cyberbullying / Relationships and Communication –** *Cyberbullying: Crossing the Line*	presentations to clarify claims and findings and emphasize salient points
Eighth Grade	**Information Literacy -** Integrate a variety of file types to create and illustrate a document or presentation **Media Literacy -** Independently develop and apply strategies for identifying and solving routine hardware and software problems **Digital Citizenship –** Create media rich presentations for other students on the appropriate and ethical use of digital tools and resources	**Content Knowledge** -use web search engines to find and evaluate information around a specific topic -use Web 2.0 simulations and interactive sites to explore concepts learned in the classroom **Procedural Knowledge** -use word processing, presentation, video and audio software to create and present ideas and topics -work collaboratively to plan, design and implement cross curricular presentations around a specific topic **Motivational Engagement – What it looks like…** **-**create a multimedia presentation using video to create a public service announcement about internet safety	**Privacy and Security –** *Scams and Schemes* **Creative Credit and Copyright / Information Literacy –** *A Creator's Rights* **Self-image and Identity –** *My Media* **Information Literacy / Self-image and Identity –** *Gender Stereotypes Online* **Creative Credit and Copyright / Information Literacy –** *Rework, Reuse and Remix*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – Use technology, including the Internet, to produce and publish writing and present the relationship between infomraiton and ideas efficiently as well as to interact and collaborate with others **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest

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High School Technology Standards by Grade Level (9-12)

	Technology Literate Student	Student Task…	Internet Safety Connection	ELA Common Core Connection
Ninth Grade	**Media Literacy** 1. Select digital tools or resources to use for a real-world task and justify the selection based on their efficiency and effectiveness 2. Employ curriculum specific simulations to practice critical-thinking processes **Information Literacy –** Identify a complex global issue, develop systematic plan of investigational and present innovative sustainable solutions **Digital Citizenship –** Model legal and ethical behaviors when using information and technology by properly selecting, acquiring and citing online resources	**Content Knowledge** -identify appropriate digital tools and determine function and applicability to real world situations -effectively evaluate web resources for authenticity, reliability and validity -understand the ethical use of online environments for professional networking **Procedural Knowledge** -use web based tools to design and create collaborative presentations around content specific topics -participate in online communities around curricular topics or themes -design and implement web based student portfolio **Motivational Engagement – What it looks like…** -student create and maintain a web based portfolio demonstrating skills and knowledge gained throughout high school career	**Self-image and Identity –** *Digital Life 102* **Digital Footprint –** *Oops! I Broadcast It Online!* **Creative Credit and Copyright –** *Copyrights and Wrongs* **Creative Credit and Copyright / Information Literacy –** *Retouching Reality* **Cyberbullying / Relationships and Communication –** *Turn Down the Dial on Cyberbullying and Online Cruelty*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing) -** Use technology, including the Internet, to produce, publish, and update individual or shared writing products, take advantage of technology's capacity to link to other information and to display information flexibly and dynamically **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Make strategic use of digital media (e.g. contextual, graphical, audio, visual and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

Tenth Grade	**Media Literacy** 1. Select digital tools or resources to use for a real-world task and justify the selection based on their efficiency and effectiveness 2. Employ curriculum specific simulations to practice critical-thinking processes **Information Literacy –** Identify a complex global issue, develop systematic plan of investigational and present innovative sustainable solutions **Digital Citizenship –** Model legal and ethical behaviors when using information and technology by properly selecting, acquiring and citing online resources	**Content Knowledge** -identify appropriate digital tools and determine function and applicability to real world situations -effectively evaluate web resources for authenticity, reliability and validity -understand the ethical use of online environments for professional networking **Procedural Knowledge** -use web based tools to design and create collaborative presentations around content specific topics -participate in online communities around curricular topics or themes -continue to maintain web based student portfolio **Motivational Engagement – What it looks like…** -student create and maintain a web based portfolio demonstrating skills and knowledge gained throughout high school career	**Relationships and Communication / Self-image and Identity –** *Feeling On Display* **Cyberbullying / Relationship and Communication –** *Taking Perspectives on Cyberbullying* **Creative Credit and Copyright / Information Literacy –** *Rights, Remixes and Respect* **Digital Footprint –** *College Bound* **Creative Credit and Copyright / Information Literacy –** *Collective Intelligence*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** – **-** Use technology, including the Internet, to produce, publish, and update individual or shared writing products, take advantage of technology's capacity to link to other information and to display information flexibly and dynamically **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Make strategic use of digital media (e.g. contextual, graphical, audio, visual and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest
Eleventh Grade	**Media Literacy –** Configure and troubleshoot hardware, software, and network systems to optimize their use for learning and productivity **Information Literacy –** Analyze the capabilities and limitations of current and emerging technology resources and assess their potential to address personal, social, lifelong learning, and career needs **Digital Citizenship –** Create media-rich presentations for other students on the appropriate and ethical use of digital tools and resources	**Content Knowledge** -identify appropriate digital tools and determine function and applicability to real world situations -effectively evaluate web resources for authenticity, reliability and validity -understand the ethical use of online environments for professional networking -identify tools to support college and career readiness **Procedural Knowledge** -use web based tools to design and create collaborative presentations around content specific topics -participate in online communities around curricular topics or themes -continue to maintain web based student portfolio -use electronic tools to support college and career readiness **Motivational Engagement – What it looks like…** -student create and maintain a web based portfolio demonstrating skills and knowledge gained throughout high school career	**Relationships and Communication / Self-image and Identity –** *My Online Code* **Self-image and Identity / Digital Footprint –** *Overexposed: Sexting and Relationships* **Privacy and Security –** *What's the Big Deal About Internet Security?* **Digital Footprint –** *Private Today, Public Tomorrow* **Cyberbullying / Relationships and Communication –** *Breaking Down Hate Speech*	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** - Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Make strategic use of digital media (e.g. contextual, graphical, audio, visual and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest
Twelfth Grade	**Media Literacy –** Configure and troubleshoot hardware, software, and network systems to optimize their use for learning and productivity **Information Literacy –** Analyze the capabilities and limitations of current	**Content Knowledge** -identify appropriate digital tools and determine function and applicability to real world situations -effectively evaluate web resources for authenticity, reliability and validity -understand the ethical use of online	**Self-image and Identity –** *Who Are You Online?* **Information Literacy –** *Building Community Online* **Internet Safety / Relationships and**	**Writing: Standard 6: Production and Distribution of Writing (Use of Technology to Produce Writing)** - Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to

and emerging technology resources and assess their potential to address personal, social, lifelong learning, and career needs **Digital Citizenship –** Create media-rich presentations for other students on the appropriate and ethical use of digital tools and resources	environments for professional networking -identify tools for college and career readiness **Procedural Knowledge** -use web based tools to design and create collaborative presentations around content specific topics -participate in online communities around curricular topics or themes -continue to maintain web based student portfolio -use tools that support college and career readiness **Motivational Engagement – What it looks like…** -student create and maintain a web based portfolio demonstrating skills and knowledge gained throughout high school career	**Communication –** *Risky Online Relationships* **Cyberbullying / Information Literacy / Relationships and Communication –** *Becoming a Web Celeb* **Information Literacy –** *Does It Matter Who Has Your Data?*	ongoing feedback, including new arguments or information **Speaking and Listening: Standard 5: Presentation of Knowledge and Ideas (Use of Technology in Presentations) –** Make strategic use of digital media (e.g. contextual, graphical, audio, visual and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest

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