

Digital Citizenship		
Grade 4	Grade 5	Grade 6
Safety and Privacy		
interact with awareness and empathy when using technology	interact with awareness and empathy when using technology	interact with awareness and empathy when using technology
identify impacts of excessive screen time and create and follow a personal plan around screen time	identify impacts of excessive screen time and create and follow a personal plan around screen time	identify impacts of excessive screen time and create and follow a personal plan around screen time
recognize and discuss how inappropriate technology use affects themselves and others	recognize and discuss how inappropriate technology use affects themselves and others	recognize and discuss how inappropriate technology use affects themselves and others
manage their personal data to maintain digital privacy and security of themselves and respect the privacy boundaries of others	manage their personal data to maintain digital privacy and security and are aware of data-collection technology used to track their navigation online	manage their personal data to maintain digital privacy and security and are aware of data-collection technology used to track their navigation online
Ethical Use and Social Interactions		
cultivate and manage their digital identity and reputation and are aware of the permanence of their actions in the digital world.	cultivate and manage their digital identity and reputation and are aware of the permanence of their actions in the digital world	cultivate and manage their digital identity and reputation and are aware of the permanence of their actions in the digital world
consider how decisions around the future use of technology can have unintended or unexpected consequences	consider how decisions around the future use of technology can have unintended or unexpected consequences	consider how decisions around the future use of technology can have unintended or unexpected consequences
demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property	demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property, including simple citations	demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property, including simple citations
Empowered Learner (personal/career development)		
customize their digital learning environments in ways that support the learning process	customize their digital learning environments in ways that support the learning process	customize their digital learning environments in ways that support the learning process
use technology to seek feedback that informs and improves their practice	use technology to seek feedback that informs and improves their practice	use technology to seek feedback that informs and improves their practice
demonstrate the ability to choose, use and troubleshoot current technologies	demonstrate the ability to choose, use and troubleshoot current technologies	demonstrate the ability to choose, use and troubleshoot current technologies

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Global Collaborator		
brainstorm and create ways to improve the accessibility and usability of technology products for the diverse needs and wants of users	brainstorm and create ways to improve the accessibility and usability of technology products for the diverse needs and wants of users	Brainstorm and create ways to improve the accessibility and usability of technology products for the diverse needs and wants of users
discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices	discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices	Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices

Design Thinking		
Grade 4	Grade 5	Grade 6
Knowledge Constructor (Critical Thinker)		
will be expected to search and evaluate the accuracy, perspective, credibility and relevance of information, media, data or other resources	be expected to search and evaluate the accuracy, perspective, credibility and relevance of information, media, data or other resources	be expected to search and evaluate the accuracy, perspective, credibility and relevance of information, media, data or other resources
with teacher support, students will develop skills to plan and employ effective research strategies to locate information and other resources	develop skills to plan and employ effective research strategies to locate information and other resources	develop skills to plan and employ effective research strategies to locate information and other resources
using technology, build knowledge by actively exploring real-world issues and problems, developing ideas and pursuing answers and solutions	using technology, build knowledge by actively exploring real-world issues and problems, developing ideas and pursuing answers and solutions	Using technology, build knowledge by actively exploring real-world issues and problems, developing ideas and pursuing answers and solutions
Creative Communicator		
will communicate, with teacher support, information and ideas effectively to intended audiences using a variety of digital tools	be expected to communicate, information and ideas effectively to intended audiences using a variety of digital tools	be expected to communicate, information and ideas effectively to intended audiences using a variety of digital tools
use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints	use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints	use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints
Innovative Designer		
understand and demonstrate how to choose the most effective tool for the intended audience	understand and demonstrate how to choose the most effective tool for the intended audience	understand and demonstrate how to choose the most effective tool for the intended audience
plan, develop, test and refine prototypes as part of a cyclical design process.	plan, develop, test and refine prototypes as part of a cyclical design process.	plan, develop, test and refine prototypes as part of a cyclical design process.
be expected to use grade-appropriate digital tools to plan, organize and create products both individually and collaboratively	be expected to use grade-appropriate digital tools to plan, organize and create products both individually and collaboratively	be expected to use grade-appropriate digital tools to plan, organize and create products both individually and collaboratively

Computational Thinking/Technology Fluency		
Grade 4	Grade 5	Grade 6
Competencies		
be expected to use grade appropriate ICT terminology	be expected to use grade appropriate ICT terminology	be expected to use grade appropriate ICT terminology
be expected to use grade appropriate technology skills	be expected to use grade appropriate technology skills	be expected to use grade appropriate technology skills
Data and Analysis		
with teacher assistance, students break complex problems into smaller parts and extract key information to facilitate problem-solving.	break complex problems into smaller parts and extract key information to facilitate problem-solving.	break complex problems into smaller parts and extract key information to facilitate problem-solving
collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making.	collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making	collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making
compare and refine multiple programs for the same task and determine which is the most appropriate.	compare and refine multiple programs for the same task and determine which is the most appropriate	compare and refine multiple programs for the same task and determine which is the most appropriate
Coding		
create programs that include sequences, events, loops, conditionals and variables	create programs that include sequences, events, loops, conditionals and variables	create programs that include sequences, events, loops, conditionals, variables, and functions
modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features	modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features	modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features
debug (identify and fix) errors in an algorithm or program that includes sequences, simple loops, events, conditions or variables	debug (identify and fix) errors in an algorithm or program that includes sequences, simple loops, events, conditions or variables	debug (identify and fix) errors in an algorithm or program that includes sequences, simple loops, events, conditions, variables or functions
communicate choices made during program development	communicate choices made during program development	communicate choices made during program development