IT

Information Technology Standards

Creativity and Innovation: Students will demonstrate creative thinking, construct knowledge, and develop innovative products and processes.

A. Create original works as a means of personal or group expression.

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.

B. Communicate information and ideas effectively to multiple audiences using a variety of media and formats.

C. Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.

Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

D. Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.

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.

E. Collect and analyze data to identify solutions and/or make informed decisions.

Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

F. Advocate and practice safe, legal, and responsible use of information and technology.

Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.

G. Understand and use technology systems.

H. Select and use applications effectively and productively.

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
Creativity and Innovation: Students will demonstrate creative thinking, construct knowledge, and develop innovative products and processes.											
IT.K.A.		**Create original works as a means of personal or group expression.**		**IT.1.A.**		**Create original works as a means of personal or group expression.**		**IT.2.A.**		**Create original works as a means of personal or group expression.**	
	1	Create simple original works using digital tools.	2		**1**	Create simple original works using digital tools.	5		**1**	Create original works using a variety of preselected software, with guidance.	5
		Grade 3:	BI			**Grade 4:**	BI			**Grade 5:**	BI
Creativity and Innovation: Students will demonstrate creative thinking, construct knowledge, and develop innovative products and processes.											
IT.3.A.		**Create original works as a means of personal or group expression.**		**IT.4.A.**		**Create original works as a means of personal or group expression.**		**IT.5.A.**		**Create original works as a means of personal or group expression.**	
	1	Create and modify original works using products from a variety of preselected software, with guidance.	5		**1**	Create original works using products from a variety of preselected software.	5		**1**	Create a multimedia product using preselected software, with guidance.	5
		Grade 6:	BI			**Grade 7:**	BI			**Grade 8:**	BI
Creativity and Innovation: Students will demonstrate creative thinking, construct knowledge, and develop innovative products and processes.											
IT.6.A.		**Create original works as a means of personal or group expression.**		**IT.7.A.**		**Create original works as a means of personal or group expression.**		**IT.8.A.**		**Create original works as a means of personal or group expression.**	
	1	Create a multimedia product.	5		**1**	Design an interactive, multimedia product.	5		**1**	Design a non-linear, interactive, multimedia product.	5

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
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.											
IT.K.B.		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.1.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.2.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**	
	1	Communicate original ideas and stories using digital tools.	2		**1**	Communicate information and ideas using a variety of media and formats.	2		**1**	Collect and communicate information and ideas using a variety of media and formats.	3
IT.K.C.		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.1.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.2.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**	
		Not assessed at this level.				Not assessed at this level.				Not assessed at this level.	

		Grade 3:	BI			Grade 4:	BI			Grade 5:	BI
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.											
IT.3.B.		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.4.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.5.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**	
	1	Creates a product for the classroom audience using technology.	5		**1**	Creates a product for a specific audience beyond the classroom using technology.	5		**1**	Creates a product for a specific audience beyond the school using technology.	5
IT.3.C.		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.4.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.5.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**	
	1	Creates an age appropriate collaborative project.	5		**1**	Creates an age appropriate collaborative project using a variety of media.	5		**1**	Creates an age appropriate collaborative project using a variety of media.	5

		Grade 6:	BI			Grade 7:	BI			Grade 8:	BI
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.											
IT.6.B.		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.7.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**		**IT.8.B.**		**Communicate information and ideas effectively to multiple audiences using a variety of media and formats.**	
	1	Describe and illustrate a content-related concept using a variety of media for a specific audience.	3		**1**	Describe and illustrate a content-related concept, problem, or process using a variety of media and/or software for a specific audience.	3		**1**	Define and analyze a content-related concept, problem, or process using a variety of media and/or software for a specific audience.	4
IT.6.C.		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.7.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**		**IT.8.C.**		**Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media to produce original works or solve problems.**	
	1	Interact within virtual, collaborative learning	3		**1**	Interact within virtual, collaborative learning	3		**1**	Uses technology in collaborative learning environments	3

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.											
IT.K.D.		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.1.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.2.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**	
		Not assessed at this level.			**1**	Uses graphic organizers to explore, depict, and create projects with guidance.	3		**1**	Uses graphic organizers to explore, depict, and create projects.	3
									2	Locate and select information for intended purpose with guidance.	3
		Grade 3:	BI			**Grade 4:**	BI			**Grade 5:**	BI
Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.											
IT.3.D.		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.4.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.5.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**	
	1	Organize information utilizing teacher-directed tools.	4		**1**	Organize and evaluate information utilizing teacher-directed tools.	6		**1**	Organize and evaluate information utilizing various tools.	6
	2	Locate, select, and cite information for intended purpose with guidance.	4		**2**	Locate, select, and cite information for intended purpose with guidance.	4		**2**	Locate, select, and cite information using a specified format, for intended purpose with guidance.	4
		Grade 6:	BI			**Grade 7:**	BI			**Grade 8:**	BI
Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.											
IT.6.D.		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.7.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**		**IT.8.D.**		**Locate, organize, analyze, evaluate, synthesize, and cite information from a variety of sources and media.**	
	1	Compare and contrast digital resources to distinguish validity.	6		**1**	Evaluates digital resources to determine the credibility of the author and publisher, and the timeliness and accuracy of the content.	6		**1**	Utilizes digital resources which are credible, timely, and accurate.	6
	2	Locate and organize pertinent information from a variety of sources and media.	4		**2**	Use appropriate tools to organize, evaluate, and synthesize information from a variety of sources and media.	6		**2**	Select and use appropriate tools to organize, synthesize, evaluate, and analyze information from a variety of sources and media.	6
	3	Properly cite resources.	3		**3**	Properly cite resources.	3		**3**	Properly cite resources.	3

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
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.											
IT.K.E.		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.1.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.2.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**	
		Not assessed at this level.				Not assessed at this level.			**1**	Categorize data to make informed decisions using technology.	5
		Grade 3:	BI			**Grade 4:**	BI			**Grade 5:**	BI
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.											
IT.3.E.		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.4.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.5.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**	
	1	Collect and categorize data to make informed decisions using technology.	4		**1**	Collect, categorize, and analyze data to make informed decisions using technology.	4		**1**	Collect, categorize, and analyze data to describe and/or solve a problem using technology.	4
		Grade 6:	BI			**Grade 7:**	BI			**Grade 8:**	BI
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.											
IT.6.E.		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.7.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**		**IT.8.E.**		**Collect and analyze data to identify solutions and/or make informed decisions.**	
	1	Collect, categorize, and analyze data to accurately illustrate the data using graphing tools.	4		**1**	Generate and analyze data using formulas and graphing tools that accurately illustrates the data.	6		**1**	Generate and analyze data using formulas and graphing tools that accurately illustrates the data and proposes a solution.	6

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.											
IT.K.F.		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.1.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.2.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**	
	1	Demonstrate the safe and responsible use of technology.	3		**1**	Demonstrate the safe and responsible use of technology.	3		**1**	Demonstrates the ability to navigate virtual environments safely and responsibly.	3
		Grade 3:	BI			**Grade 4:**	BI			**Grade 5:**	BI
Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.											
IT.3.F.		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.4.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.5.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**	
					1	Demonstrates the appropriate use of copyrighted materials.	6		**1**	Demonstrates an understanding of the legalities and use of copyrighted materials.	6
	1	Demonstrate safe and responsible use of information and technology.	3		**2**	Practice safe and responsible use of information and technology.	3		**2**	Practice safe and responsible use of information and technology.	3
	2	Applies the morals and teachings of the Catholic Church in social media and online communications (e.g., cyberbullying)	6		**3**	Applies the morals and teachings of the Catholic Church in social media and online communications (e.g., cyberbullying)	6		**3**	Applies the morals and teachings of the Catholic Church in social media and online communications (e.g., cyberbullying)	6
		Grade 6:	BI			**Grade 7:**	BI			**Grade 8:**	BI
Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.											
IT.6.F.		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.7.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**		**IT.8.F.**		**Advocate and practice safe, legal, and responsible use of information and technology.**	
	1	Demonstrates an understanding of the legalities and use of copyrighted materials and intellectual property.	3		**1**	Demonstrates an understanding of the legalities and use of copyrighted materials and intellectual property.	3		**1**	Demonstrates and defend the legalities and use of copyrighted materials and intellectual property.	3
	2	Advocate and practice safe and responsible use of information and technology.	3		**2**	Advocate and practice safe and responsible use of information and technology.	3		**2**	Advocate and practice safe and responsible use of information and technology.	3
	3	Applies the morals and teachings of the Catholic Church in social media and online communications. (e.g., cyberbullying)	3		**3**	Applies the morals and teachings of the Catholic Church in social media and online communications. (e.g., cyberbullying)	3		**3**	Applies the morals and teachings of the Catholic Church in social media and online communications. (e.g., cyberbullying)	3

		Kindergarten:	BI			Grade 1:	BI			Grade 2:	BI
Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.											
IT.K.G.		**Understand and use technology systems.**		**IT.1.G.**		**Understand and use technology systems.**		**IT.2.G.**		**Understand and use technology systems.**	
	1	Identify the basic components of digital hardware (e.g., mouse, keyboard).	1		**1**	Communicate about basic technology using appropriate and accurate terminology.	2		**1**	Communicate and demonstrate the use of file systems and hardware with guidance.	3
IT.K.H.		**Select and use applications effectively and productively.**		**IT.1.H.**		**Select and use applications effectively and productively.**		**IT.2.H.**		**Select and use applications effectively and productively.**	
	1	Demonstrate the ability to open and close an application.	2		**1**	Demonstrate ability to navigate within an application with guidance.	2		**1**	Demonstrate ability to navigate within an application with guidance.	2
		Grade 3:	BI			**Grade 4:**	BI			**Grade 5:**	BI
Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.											
IT.3.G.		**Understand and use technology systems.**		**IT.4.G.**		**Understand and use technology systems.**		**IT.5.G.**		**Understand and use technology systems.**	
	1	Uses keyboarding skills.	1		**1**	Uses efficient keyboarding skills.	1		**1**	Uses efficient keyboarding skills.	1
	2	Communicate and demonstrate the use of file systems and hardware.	2		**2**	Communicate and demonstrate the use of network systems and hardware.	2		**2**	Communicate and demonstrate the use of web-based applications and hardware.	2
IT.3.H.		**Select and use applications effectively and productively.**		**IT.4.H.**		**Select and use applications effectively and productively.**		**IT.5.H.**		**Select and use applications effectively and productively.**	
	1	Demonstrate ability to navigate within an application with limited guidance.	3		**1**	Demonstrate ability to navigate within an application.	3		**1**	Uses software (e.g. word processing, spreadsheets, presentation software) effectively.	3
		Grade 6:	BI			**Grade 7:**	BI			**Grade 8:**	BI
Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.											
IT.6.G.		**Understand and use technology systems.**		**IT.7.G.**		**Understand and use technology systems.**		**IT.8.G.**		**Understand and use technology systems.**	
	1	Demonstrates knowledge of hardware, software, and peripherals.	1		**1**	Demonstrates knowledge of and troubleshoots systems and applications.	4		**1**	Applies current knowledge of hardware, software, and peripherals to learning new technologies.	4
IT.6.H.		**Select and use applications effectively and productively.**		**IT.7.H.**		**Select and use applications effectively and productively.**		**IT.8.H.**		**Select and use applications effectively and productively.**	
	1	Uses software (e.g. word processing, spreadsheets, presentation software) effectively to create a media rich product.	3		**1**	Uses advanced software features effectively to create a media rich product.	3		**1**	Uses advanced software features effectively to create a media rich product.	3