



Diocese of Madison

**INFORMATION TECHNOLOGY
STANDARDS & BENCHMARKS**



Grades K—8

Office of Catholic Schools

Introduction:

The most recent iteration of the Information Technology Standards and Benchmarks were originally adopted and released in 2011 for use in all schools in the Diocese of Madison. However, unlike most other curricular areas, Information Technology has seen a breadth of change in both content and how the content is delivered. Devices such as iPads and Chromebooks vastly changed the landscape of Information Technology and how students learn. Thus, a committee was formed in 2015 to evaluate and revise the current Standards and Benchmarks to examine the relevance of the Standards in light of the modern technologies and the expected ways that students learn given such available technologies.

Recognizing that there are many schools that have either not yet adopted newly available devices, or do not yet plan to, the committee continually reflected on the relevance of the Standards and Benchmarks for all learners.

Thus, the Standards and Benchmarks were revised to reflect the current landscape of expected knowledge and skills in the area of Information Technology and remain similar to the 2011 iteration. It is expected that all schools should easily integrate the revised Standards and Benchmarks in to existing curriculum.

However, the revised Information Technology Standards are not written for dedicated Information Technology teachers, given the realization of the committee that there is strong variance among the schools and the employment of a dedicated Information Technology teacher. Therefore, it is up to the program leader or Principal to determine how the Standards and Benchmarks influence curriculum and are reported. Regardless of teaching assignments, all students should be expected to know and be able to accomplish the Benchmarks within the school's curricular program.

Information Technology Standards and Benchmarks Revision Committee Members:

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IT	Information Technology Standards
1. Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology	
A	Application
B	Creativity
2. 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. Students apply digital tools to gather, evaluate, and use information.	
4. 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. Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.	

		Kindergarten:	Grade 1:	Grade 2:
IT.1.		Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology		
A	Application			
B	Creativity	Create original work	Create original work	Create original work

		Grade 3:	Grade 4:	Grade 5:
A	Application		Recognize the ability to use existing knowledge to generate new products	Recognize the ability to use existing knowledge to generate new products
B	Creativity	Create original works as a means of personal expression	Create original works as a means of personal or group expression when prompted	Create original works as a means of personal or group expression

		Grade 6:	Grade 7:	Grade 8:
A	Application	Apply existing knowledge to generate new products	Recognize how to generate new ideas using existing knowledge	Apply existing knowledge to generate new ideas, products, or processes
B	Creativity			

		Kindergarten:	Grade 1:	Grade 2:
	IT.2.	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.		
A		Recognize that technology can be utilized to communicate	Recognize that technology can be utilized to communicate	Utilize technology when prompted to communicate

		Grade 3:	Grade 4:	Grade 5:
A		Utilize technology independently to communicate and publish	Recognize the ability to communicate and publish collaboratively	Utilize technology to communicate and publish collaboratively

		Grade 6:	Grade 7:	Grade 8:
A		Utilize technology to communicate and publish collaboratively in a variety of media formats		

		Kindergarten:	Grade 1:	Grade 2:
IT.3.		Students apply digital tools to gather, evaluate, and use information.		
A		Utilize digital tools to gather information	Utilize digital tools to use information	Utilize digital tools to evaluate information

		Grade 3:	Grade 4:	Grade 5:
A		Utilize digital tools to evaluate information within original work	Recognize that information sources may or may not be appropriate for specific tasks	Recognize that information sources may or may not be credible

		Grade 6:	Grade 7:	Grade 8:
A		Select appropriate information sources with guidance within original work	Evaluate and select appropriate information sources within original work	Appropriately cite credible sources within original work

		Kindergarten:	Grade 1:	Grade 2:
	IT.4.	Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.		
A		Identify a problem	Identify how to solve a problem	Identify the solution to a problem

		Grade 3:	Grade 4:	Grade 5:
A		Understand the process of research using appropriate digital tools and resources	Conduct research using appropriate digital tools and resources	Utilize research to solve problems using appropriate digital resources

		Grade 6:	Grade 7:	Grade 8:
A		Make informed decisions using appropriate digital tools and resources		

		Kindergarten:	Grade 1:	Grade 2:
IT.5. Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.				
A	Safety	Recognize that there is a need for safety	Differentiate between safe and unsafe uses	Demonstrate safety when prompted
B	Attitude	Exhibit awareness of available technologies	Utilize available technologies	Utilize technologies for learning when prompted
C	Responsibility	Demonstrate responsible and ethical use of technology	Demonstrate responsible and ethical use of technology	Demonstrate responsible and ethical use of technology

		Grade 3:	Grade 4:	Grade 5:
A	Safety	Demonstrate safety independently	Demonstrate safety while collaborating	Recognize the legal component of information
B	Attitude	Utilize technologies for independent learning	Demonstrate use of technology for collaborative learning	Demonstrate use of technology for collaborative learning
C	Responsibility	Demonstrate responsible and ethical use of technology	Demonstrate responsible and ethical use of technology	Demonstrate responsible and ethical use of technology

		Grade 6:	Grade 7:	Grade 8:
A	Safety	Demonstrate the legal component of information when prompted	Demonstrate the legal component of information independently	Advocate and practice safe, legal, and responsible use of information and technology
B	Attitude	Recognize how to be productive in both independent and collaborative work	Demonstrate being productive in both independent and collaborative work	Exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity
C	Responsibility	Recognize personal responsibility in its connection to lifelong learning	Demonstrate personal responsibility in its connection to lifelong learning	Demonstrate personal responsibility for lifelong learning

		Kindergarten:	Grade 1:	Grade 2:
IT.6. Students demonstrate a sound understanding of technology concepts, systems, and operations.				
A		Identify functions of digital tools	Demonstrate knowledge of functions of digital tools	Utilize functions of digital tools

		Grade 3:	Grade 4:	Grade 5:
A		Recognize the differences between digital tools	Recognize different functions of digital tools	Utilize different functions of digital tools

		Grade 6:	Grade 7:	Grade 8:
A		Understand and utilize available digital tools	Understand and utilize digital tools appropriate for specific tasks	Efficiently utilize digital tools appropriate for specific tasks