

Catholic Identity Standards

7.0 The student understands and integrates the content of what is learned into their faith and daily life.

Ways to Grow

- 7.0A recognize that every human life is sacred because each person is created and loved by God
- 7.0B describe ways to take part in/be responsible to the community by discerning and using our God-given gifts
- 7.0C recognize and oppose unjust social structures and work toward justice for all
- 7.0D see God at work in all things and as expressed in the sacraments
- 7.0E connect scripture, tradition, and the models of Mary and the saints to guide, grow, and deepen faith

Computational Thinking

7.1 The student explores the core concepts of computational thinking, a set of problem-solving processes that involve decomposition, pattern recognition, abstraction, and algorithms.

Applied Standards		Supporting Standards	
7.1A	decompose real-world problems into structured parts using flowcharts	7.1B	analyze the patterns and sequences found in flowcharts
7.1C	identify abstraction and analyze how an algorithm the student created can be generalized to solve additional problems		
7.1D	design a plan collaboratively using flowcharts to document a problem, possible solutions, and an expected timeline for the development of a coded solution		
7.1E	analyze different techniques used in debugging and apply them to an algorithm		
7.1F	analyze the benefits of using iteration (code and sequence repetition) in algorithms		

Computational Thinking

7.2 The student applies the fundamentals of computer science.

7.2A	manipulate and rename variables and describe different data types		
7.2B	use a software design process to create text-based programs with nested loops that address different subproblems within a real-world context		

Creativity and Innovation

7.3 The student takes an active role in learning by using a design process and creative thinking to develop and evaluate solutions, considering a variety of local and global perspectives.

7.3B	discuss and implement a design process that includes planning and selecting digital tools to develop and refine a prototype or model through trial and error	7.3A	resolve challenges in design processes independently using goal setting and personal character traits such as demonstrating responsibility and advocating for self appropriately
		7.3C	identify how the design process is used in various industries

Creativity and Innovation

7.4 The student demonstrates a thorough understanding of the role of technology throughout history and its impact on societies.

7.4A	explain how changes in technology throughout history have impacted various areas of study		
7.4B	explain how global trends impact the development of technology		
7.4C	transfer current knowledge to the learning of newly encountered technologies		

Data Literacy, Management, and Representation

Snapshot – Grade 7 Technology Applications

7.5	The student uses advanced digital strategies to collect and represent data.	
7.5A	demonstrate how data can be represented in a binary number systems	
7.5B	evaluate advanced search strategies, including keywords, Boolean operators, and limiters	

Data Literacy, Management, and Representation

7.6	The student uses digital tools to transform data, make inferences, and predictions.	
7.6A	use digital tools in order to transform data to analyze trends and make inferences and predictions	

Data Literacy, Management, and Representation

7.7	The student creates digital products to communicate data to an audience for an intended purpose.	
7.7A	use digital tools to communicate and display data from a product or process to inform or persuade an intended audience	

Digital Citizenship

7.8	The student understands different styles of digital communication and that a student's actions online can have a long-term impact.	
7.8A	classify actions as having a positive or negative effect on a digital footprint	
7.8C	collaborate on digital platforms such as recording a video conference presentation using appropriate formal and informal digital etiquette	7.8B create and revise formal and informal communications using a feedback process and appropriate digital etiquette

Digital Citizenship

7.9	The student recognizes and practices responsible, legal, and ethical behavior while using digital tools and resources.	
7.9A	adhere to local acceptable use policy (AUP) and practice and model safe, ethical, and positive online behaviors	
7.9C	create citations and cite sources for a variety of digital forms of intellectual property	7.9B explain the importance of intellectual property laws, including the benefits of protection for content owners, and the consequences of violating these laws
7.9D	evaluate how various types of media, including social media, and technology can be used to exaggerate and misrepresent information	

Digital Citizenship

7.10	The student practices safe, legal, and ethical digital behaviors to become a socially responsible digital citizen.	
7.10A	describe and model ways to protect oneself from real-world cybersecurity attacks	
7.10B	analyze the negative impacts of cyberbullying on the victim and the bully	

Practical Technology Concepts

7.11	The student evaluates and selects appropriate methods or techniques for an independent project and identifies and solves common hardware and software problems using troubleshooting strategies.	
7.11A	choose a variety of digital tools to create, share, and communicate digital artifacts	

Practical Technology Concepts

Snapshot – Grade 7 Technology Applications

7.12	The student leverages technology systems, concepts, and operations to produce digital artifacts.	
7.12A	demonstrate proficiency in the appropriate use of technology terminology in projects through team collaboration and communication	
7.12B	demonstrate effective file management strategies such as file naming conventions, local and remote locations, backup, hierarchy, folder structure, file conversion, tags, and emerging digital organizational strategies with assistance	7.12G use a variety of types of local and remote data storage to store or share data such as cloud architecture or local server
7.12C	select and use appropriate platform and tools, including selecting and using software or hardware for a defined task	
7.12D	demonstrate improvement in speed and accuracy as measured by words per minute when applying correct keyboarding techniques	7.12E select and use appropriate shortcuts within applications
7.12F	research and test potential solutions to solve hardware and software problems	
7.12H	select and use productivity tools found in spread sheet, word processing, and publication applications to create digital artifacts such as reports, graphs, and charts with increasing complexity	