INFORMATION TECHNOLOGY

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<u>Overall Course Objective</u>: This course ensures that students leave Mother of God School with the skills they will need in High School and beyond to "learn effectively and live productively in an increasingly global and digital society."

(http://www.iste.org/standards/ISTE-standards/standards-for-students)

ISTE-S Standards;
1. Creativity and Innovation
2. Communication and Collaboration
3. Research and Information Fluency
4. Critical Thinking, Problem Solving and Decision Making
5. Digital Citizenship
6. Technology Operation and Concepts

<u>Course Expectations</u>: Every student in expected to
- ❋ Follow all classroom and school safety rules
- ❋ Show respect for the equipment, other students and the instructor
- ❋ HAVE FUN SAFELY!

<u>Grading</u>: There is no report card grade for IT class. However, some assignments may be graded and given to a subject/homeroom teacher to include in their gradebook.

<u>Standardized Assessments</u>: Using Scantron Performance Series Web-based Testing, all students in Grades 1-8 will be assessed in Mathematics and Reading at the beginning, middle and end of the year. Students in Grade K will be assessed in Mathematics and Reading Foundations in the middle and at the end of the year. All students in Grades 2-8 will be assessed in Religious Formation once per year. Some students may also be tested using the Scantron Achievement Series Web-based Testing to ensure that they are on target for yearly gains. Whenever possible, these tests will be administered outside of normal IT class time and in collaboration with classroom/subject teachers.

<u>Computer Science</u>: All students in Grades K-7 will participate in the Hour of Code from approximately December 4-8, 2017. See https://hourofcode.com/us/en for more information. Students will also be encouraged to independently sign up for additional coding activities and lessons at code.org.

<u>Learning Outcomes</u>: Students will be able to
- ❖ Grade K
  - ❋ Begin to understand the concept of Information Technology
  - ❋ Identify major hardware components on the outside of the computer system

- Identify the four main jobs of a computer (input, output, processing and storage)
- Identify the input and output parts of the computer system
- Safely turn a computer on and off
- Log on and off
- Open and close programs
- Understand basic safety rules for using a computer
- Learn how to care for a computer
- Use learning programs tied to basic curriculum and typing
- Learn strategies for identifying and solving routine software problems

- ❖ Grade 1
  - All of the above, and
  - Define Information Technology
  - Improve their typing ability
  - Type sentences using WORD
  - Improve strategies for identifying and solving routine software problems
  - Begin using proper WINDOWS terminology

- ❖ Grade 2
  - All of the above, and
  - Begin typing with proper finger placement
  - Begin to learn formatting in WORD
  - Understand file architecture and create a file folder for personal storage
  - Learn strategies for identifying and solving routine hardware problems
  - Use proper WINDOWS terminology

- ❖ Grade 3
  - All of the above, and
  - Improve typing ability with proper finger placement
  - Type brief constructed responses (BCR) from teacher-provided prompts
  - Learn additional formatting in WORD
  - Begin doing Internet research using assigned websites
  - Improve strategies for identifying and solving routine hardware problems

- ❖ Grade 4
  - All of the above, and
  - Begin becoming proficient at typing with proper finger placement
  - Learn proper citation formatting for Internet resources
  - Learn the basics of POWERPOINT to create presentations
  - Use interactive websites to further studies in grade-level curriculum

- ❖ Grade 5
  - All of the above, and
  - Improve proficiency at typing with proper finger placement
  - Type extended constructed responses (ECR) from teacher-provided prompts
  - Learn how to formulate a good research question

- ❋ Learn to research independently
- ❋ Learn the importance of safely navigating Social Networking Sites

- ❖ Grade 6
  - ❋ All of the above, and
  - ❋ Begin to improve speed and accuracy while typing
  - ❋ Learn to use the basics of EXCEL
  - ❋ Understand what Internet resources are available for research

- ❖ Grade 7
  - ❋ All of the above, and
  - ❋ Continue to improve speed and accuracy while typing
  - ❋ Effectively evaluate websites for accuracy, credibility and truthfulness, bias
  - ❋ Synthesize information into usable formats using a variety of software

Useful definitions:

Information: Words, numbers pictures, data and facts that we can gather and transmit to others

Technology: anything new that makes our lives easier

Digital Literacy: The ability to locate, organize, understand, evaluate, and analyze information using digital technology. It involves a working knowledge of current high-technology, and an understanding of how it can be used. Digitally literate people can communicate and work more efficiently, especially with those who possess the same knowledge and skills. (https://cleach.wordpress.com/what-is-digital-literacy/)

Useful Links:

Ikeepbookmarks

http://ww2.ikeepbookmarks.com/browse.asp?folder=2967359&clientWidth=0

Cough Safe Video

https://www.youtube.com/watch?v=CtnEwvUWDo0