

Sacred Heart School
Course Syllabus
Computer Science and Technology
Early Elementary Grades K-2nd

Teacher Information: Barbara Hamanaka
Sacred Heart School: 860-445-0611
hamanakab@sacredheartgroton.org

Course Description:

The topics listed below are taught using a gradual and cumulative system that enables students to progress at an age-appropriate level during this three-year period. Computer programs which reinforce material covered in the classroom are used as vehicles of instruction for both content (math, language arts, etc.) and navigation (opening, closing and saving material).

Computer Terminology

Introduce some of the most common words used with reference to computers such as monitor, keyboard, mouse, pointer, printer, button, icon, menu, etc.

Word Processing

Students will learn how to create a text document and save and open an existing one. Attention will be given to capitalization, punctuation and proper spacing.

Images

Students will use a paint program to create pictures and introduce clip art.

Instructional Strategies: Include but are not limited to group and individual instruction, questions and answers, discussions, exploration

Materials: Software that includes but is not limited to the following:

- Mathosaurus I, II
- Transition Math K-1
- ABC World
- Picture Phonics
- Reading Readiness
- KidPix
- Word Processor

Sacred Heart School
Course Syllabus
Computer Science and Technology
Late Elementary Grades 3rd-5th

Teacher Information: Barbara Hamanaka
Sacred Heart School: 860-445-0611
hamanakab@sacredheartgroton.org

Course Description:

The topics listed below are taught using a gradual and cumulative system that enables students to progress at an age-appropriate level during this three-year period. A large amount of time will be spent on keyboarding skills.

Computer Terminology

Students should feel comfortable with naming and utilizing the most commonly used software menu items, options and controls.

Keyboarding

Keyboarding will be taught to achieve accuracy and a certain level of speed for typing. Correct finger position and hand movement will be enforced.

Word Processing

Instruction in the use of advanced tools for enhancing documents such as formatting text and inserting images will be introduced. By the end of the late elementary grades, students should be able to write an attractive document.

Images

Use a drawing program to create images.

Graphs

Students will create and manipulate different types of graphs to interpret data compiled either from observation or other sources.

Research Engine

Explain the need and utilization of computers as a research tool. Introduce the Internet as a source of information and discuss safe surfing.

Instructional Strategies: Include but are not limited to group and individual instruction, questions and answers, discussions, exploration

Materials: Software that includes but is not limited to the following:

- Maps and Graphs
- Faces and Places
- Fractions

- Wild West Math
- KidPix
- Word Processor
- Spreadsheet/Graph
- Drawing/Paint program
- Educational websites provided by teacher

Sacred Heart School
 Course Syllabus
Computer Science and Technology
Middle School Grades 6th - 8th

Teacher Information: Barbara Hamanaka
 Sacred Heart School: 860-445-0611
hamanakab@sacredheartgroton.org

Course Description:

The topics listed below are taught using a gradual and cumulative system that enables students to progress at an age-appropriate level during this three-year period.

- Drawing program – create images of increasing complexity using a variety of tools and commands
- Spreadsheets – including use of functions and formulas to do calculations
- Slide presentation
- Data base – Mail merge
- Utilization of search engines
- Safe surfing on the internet
- Appropriate use of information with respect to copyrights and intellectual property.
- Keyboarding
- Introduction to binary code

Previous Expectations:

- Type comfortably and at an appropriate speed in order to direct energy to the thinking process.
- Knowledge of the use of text, images and graphs in documents.

Instructional Strategies: Include but are not limited to group and individual instruction, questions and answers, discussions, exploration