

Blackhawk School District

CURRICULUM

Course Title: Computer
Grade Level(s): Grade 4
Length of Course: 1 class (40 minutes) / 6 day cycle
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Computer / Business Department Mission Statement:

Beginning at an early age, all students are introduced and prepared to explore and utilize the ever-evolving 21st century technology skills with confidence. Students will apply necessary information technology and business skills to be highly successful and competitive in a global community.

COURSE DESCRIPTION:

Write Description of course (3-4 sentences stating what students will learn in this class)

Fourth grade computer class is designed to permit students to learn the basic hardware and software components of a computer system. Students will be able to describe the basic parts of a computer including input, processing, storage, and output components. Students will use the operating system, word processing, presentation, spreadsheet, and learning software programs to solve content-area questions and problems. Students will continue to develop speed and accuracy in touch type keyboarding.

The following outline provides a general overview of the course content, not a chronological timetable. The weeks denoted for each area provide an idea for the overall time spent working with a given topic throughout the school year.

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
Students will correctly log on, log off, restart, and shut down a computer.	Use appropriate log-on, log-off, restart, shut down procedures.	1 day	computer	
Students will describe input and output devices. Students will identify the computer components involved in processing and storage.	3.6.4 B Know that information technologies consist of data processing/transmission (input, processing, storage and output)	2 days	computer peripherals	
Students will describe various computer hardware components. Students will demonstrate the use, purpose, and care of hardware and software.	3.7.4 C Explain and demonstrate basic computer operations and concepts.	2 days	computer hardware and software	
Students will be given a content-area topic to research, choose the software to use such as Internet, Word, Excel, and PowerPoint and prepare a two-page project.	3.7.4 D Use computer software to solve specific problems.	4 days	computer Internet application software	
Students will explain how computer components communicate using bytes. Students will contrast the bit, byte, kilobyte, megabyte, and gigabyte as it applies to computer storage.	3.7.4 E Explain basic computer communications systems.	1 day	computer	

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
<p>Students will create a poster on one concept from the district's acceptable use policy.</p> <p>Students will identify private information and how to prevent websites from obtaining that information.</p> <p>Students will create a one-slide presentation on how to stay safe on the Internet.</p> <p>Students will write a paragraph to describe plagiarism and copyright law as it relates to the Internet.</p>	<p>Demonstrate an understanding of the social, legal, and ethical issues related to information technologies.</p>	<p>2 days</p>	<p>computer Internet applications software</p>	
<p>Students will use autoshapes and drawing tools to create a graphic picture.</p> <p>Students will create a three-slide presentation project using clipart and wordart.</p>	<p>Demonstrate the ability to create, insert word art and clip art (also to include drawing techniques), edit, print, save a multi-slide presentation.</p>	<p>2 days 2 days</p>	<p>computer graphic software</p>	
<p>Students will create, format, edit, and print a poster in a content-area subject.</p> <p>Students will create, format, edit, and print two 2-page paragraph writings in a content-area subject.</p>	<p>Demonstrate the ability to create, format, edit, print, save word-processing documents.</p>	<p>2 days 2 days</p>	<p>computer word processing software</p>	
<p>Students will search the Internet for information for a content-area topic.</p> <p>Students will correctly type the citations for a book, magazine, and Internet cite for a research project for a content-area topic.</p>	<p>Demonstrate the ability to effectively utilize age appropriate internet search engines to access information and correctly cite sources.</p>	<p>2 days</p>	<p>computer Internet</p>	

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
<p>Students will correctly identify the CPU, monitor, keyboard, mouse, hard drive, floppy disk, and CD-ROM drive inside a computer.</p> <p>Students will correctly open files, folders, icons, and menus.</p> <p>Students will correctly identify the appropriate desktop icons and the software-specific icons on the appropriate toolbars.</p>	<p>Demonstrate the ability to identify hardware, files, folders, desktop icons, menus, and toolbars.</p>	<p>1 day</p>	<p>computer operating system applications software</p>	
<p>Students will create 2 basic spreadsheets with a table of information on a content-area topic.</p>	<p>Demonstrate the basic ability to create, format, edit, print, and save spreadsheets.</p>	<p>2 days</p>	<p>computer spreadsheet software</p>	
<p>Students will continue blogging to collaborate on content-area topics.</p>	<p>Introduce electronic communication skills along a variety of mediums.</p>	<p>1 day</p>	<p>computer Internet</p>	
<p>Students will touch type all letters and the shift, return, comma, period, question mark, backspace, and enter keys.</p>	<p>Reinforce appropriate home row / touch typing keyboarding skills</p>	<p>3 days</p>	<p>computer typing software</p>	
<p>Students will use learning software such as Accelerated Reader, Star Reading, and Study Island.</p>	<p>Utilize age appropriate learning software.</p>	<p>1 day</p>	<p>computer learning software</p>	