

TECHNOKIDS COMPUTER CURRICULUM: PROJECT GUIDE MATRIX

The *Project Guide Matrix* includes a description of each project, software, and technology skills addressed. Teachers can use this document when selecting a project, as it recommends a grade level and sequence for implementation. However, teachers are not obligated to follow the matrix. Instead, they can choose a project based on student interest, a technology skill they are interested in teaching, or a theme that integrates with curriculum units.

Primary Computer Curriculum

Order	Level K	Level 1	Level 2
1	TechnoBasics Learn computer basics by completing fun activities. Software: Kid Pix Deluxe 3 Skills: graphics, word processing, operating environment	TechnoPC Master the PC and earn a computer driver's license. Software: Paint Skills: graphics, operating environment Version: Windows 98/XP	TechnoIllustrator Arrange illustrations into an eye-catching collage. Software: Photo Editor, Paint Skills: graphics, operating environment Version: Office 97/2000/XP, Windows 98/XP
2	TechnoColors Create with colors to reveal the splendor of the rainbow. Software: Kid Pix Deluxe 3 Skills: graphics, operating environment, multimedia	TechnoArtist Spark the imagination! Make an art collection. Software: Paint Skills: graphics, operating environment Version: Windows 98/XP	TechnoAuthor Write an original fairy tale and illustrate the story. Software: Word Skills: word processing Version: Guides for Office 2000 and XP/2003
3	TechnoShapes Construct unique designs with geometric shapes. Software: Kid Pix Deluxe 3 Skills: graphics, operating environment, multimedia	TechnoBook Write and illustrate a story that is "All About Me". Software: Word Skills: word processing Version: Guides for Office 2000 and XP/2003	TechnoAnimal Create a multimedia report on an animal. Software: Internet Explorer, PowerPoint Skills: multimedia, graphics, telecommunications Version: Guides for Office 2000 and XP/2003
4	TechnoLetters Have alphabet fun! Make letters dance and talk. Software: Kid Pix Deluxe 3 Skills: graphics, operating environment, word processing	TechnoCity Produce an animated report about your community. Software: PowerPoint Skills: multimedia, word processing Version: Guides for Office 2000 and XP/2003	TechnoCelebrate Traditions, festivities, and celebrations in the world. Software: Access, Paint Skills: databases, graphics Version: Guides for Office 2000/XP/2003 and 2007
5	TechnoNumbers Learn numbers by sorting, drawing, and counting. Software: Kid Pix Deluxe 3 Skills: graphics, operating environment, word processing	TechnoCop Become a "technocop" and bring the crooks to justice. Software: Access, Word Skills: databases, word processing Version: Office 2000/XP/2003	TechnoFit Take part in the "Be Fit Challenge" by eating right and exercising. Software: Publisher Skills: desktop publishing Version: Guides for Office 2000, XP/2003, and 2007

Junior Computer Curriculum

Order	Level 3	Level 4	Level 5
1	TechnoPoet Compose rhymes, tongue twisters, and other poetry. Software: Word Skills: word processing Version: Office 2000/XP/2003	TechnoReporter Raise awareness about an endangered species. Software: Word, Internet Explorer Skills: word processing, telecommunications Version: Guides for Office 2000/XP/2003 and 2007	TechnoCorrespondent Travel to a distant location and report the facts. Software: Word, Paint, Internet Explorer Skills: word processing, graphics, telecommunications Version: Guides for Office 2000/XP/2003 and 2007
2	TechnoExplorer Explore the Internet to find TechnoBit and TechnoByte. Software: Internet Explorer, Messenger Skills: telecommunications, word processing	TechnoImages Create a digital gallery containing art that expresses your mood, style, and interests. Software: PhotoFilter V6 (free software), PowerPoint Skills: graphics, multimedia Version: Guides for Office 2000 and XP/2003	TechnoLink Develop a web page that has links to places for kids on the WWW. Software: Internet Explorer, Word Skills: graphics, word processing, telecommunications Version: Office 2000/XP/2003
3	TechnoBiz Develop a plan to increase candy sales. Software: Excel, Word Skills: spreadsheets, word processing Version: Guides for Office 2000/XP/2003 and 2007	TechnoSales Use math to make decisions about a bake sale. Software: Excel, Word Skills: spreadsheets, word processing Version: Guides for Office 2000/XP/2003 and 2007	TechnoDrama Become a digital storyteller using basic video production equipment. Software: Windows Movie Maker Skills: multimedia Windows Version: Guides for Windows XP and Vista
4	TechnoHero Create a multimedia presentation about your hero. Software: PowerPoint, Internet Explorer Skills: multimedia, telecommunications Version: Guides for Office 2000, XP/2003, and 2007	TechnoMovie Produce an animated story of a magical adventure. Software: PowerPoint, PhotoFilter V6 (free software) Skills: graphics, multimedia Version: Guides for Office 2000 and XP/2003	TechnoMummy Learn about Egyptian life and beliefs by studying artifacts from a mummy's tomb. Software: Access, Word, Paint, Internet Explorer Skills: databases, telecommunications, graphics, databases, word processing Version: Office 2000/XP/2003
5	TechnoClue Follow the clues to solve the crime. Software: Explorer, Access, Paint, PowerPoint Skills: databases, graphics, multimedia, graphics Version: Office 2000/XP/2003 (Differences in versions are placed into Notes)	TechnoQuest Learn medieval facts to save the kingdom. Software: Access, Word, PowerPoint, Internet Explorer Skills: databases, telecommunications, multimedia Version: Office 2000/XP/2003 (Differences in versions are placed into notes)	

Intermediate Computer Curriculum

Order	Level 6	Level 7	Level 8
1	TechnoEditor Edit a collection of stories to make it error-free. Software: Word Skills: word processing Version: Guides for Office 2000, XP/2003, and 2007	TechnoEzine Publish an interactive teen magazine. Software: Word, Internet Explorer Skills: word processing, telecommunications Version: Guides for Office 2000, XP/2003, and 2007	TechnoJournalist Create a movie guide that is interactive. Software: Word, Internet Explorer Skills: word processing, telecommunications Version: Office 2000
2	TechnoWeb Develop an eye-catching and informative website. Software: Internet Explorer, Publisher Skills: telecommunications, desktop publishing Version: Guides for Office 2000, XP/2003, and 2007	TechnoInvestor Buy and trade shares on the TechnoStock Exchange. Software: Excel, Word Skills: spreadsheets Version: Guides for Office 2000/XP/2003 and 2007	TechnoHTML Develop a web page using HTML source code. Software: Internet Explorer, Notepad Skills: programming, telecommunications
3	TechnoEntrepreneur Use entrepreneurial skills to operate a restaurant. Software: Excel, Word, Paint Skills: spreadsheets, word processing, graphics Version: Guides for Office 2000, XP/2003, and 2007	TechnoTravel Plan a weekend getaway for tourists. Software: Internet Explorer, PowerPoint, Word Skills: multimedia, telecommunications, word processing Version: Office 2000/XP	TechnoCEO Report to investors on company performance. Software: Excel, PowerPoint Skills: spreadsheets, multimedia Version: Guides for 2000/XP/2003 (2000 instructions where different written as a handout.) and 2007
4	TechnoNovel Create an animated book report that promotes a novel to entice viewers to read it. Software: PowerPoint, Internet Explorer(optional) Skills: multimedia Version: Guides for Office 2000 and XP/2003	TechnoBiography Create an online biography that tells about an important person. Software: Internet Explorer, Publisher, Word Skills: desktop publishing, telecommunications, word processing Version: Guides for Office 2000, XP/2003, and 2007	TechnoCommercial Create a commercial for a target audience using basic video production equipment. Software: Windows Movie Maker Skills: multimedia Windows Version: Windows XP
5			TechnoNASA Design a database to store mission-related data. Software: Internet Explorer, Access Skills: databases, telecommunications Version: Office 2000/XP/2003

Senior Computer Curriculum (These projects can be used for business applications, information technology, communications, or entrepreneurial courses)

TechnoSpecialist

Become an information technology specialist.
Software: PowerPoint, PhotoEditor, Sound Recorder
Skills: multimedia, graphics, operating environment
Version: Office 2000.

TechnoDesigner

Design a framed web site with text, links, and pictures.
Software: FrontPage, Internet Explorer
Skills: telecommunications, desktop publishing, graphics
Version: Guides for Office 2000 and XP/2003

TechnoPhotoshop

Edit photos to create a digital scrapbook.
Software: Photoshop
Skills: graphics
Version: Suitable for CS2. Slight modifications necessary to use with earlier versions.

TechnoVenture

Develop a business plan for a store.
Software: Word, Excel
Skills: word processing, spreadsheets, graphics
Version: Guides for Office 2000 and XP/2003

TechnoConsultant

Consult on the business situation and offer solutions.
Software: Word, Excel
Skills: spreadsheets, word processing
Version: Office 2000/XP/2003

TechnoPlanner

Become an event planner, organizing celebrations.
Software: Word, Access
Skills: databases, word processing
Version: Office 2000/XP/2003

TechnoFlash

Become an animator and design a Flash movie.
Software: Macromedia Flash
Skills: animation
Version: Suitable for Flash 8 and earlier versions

Teacher Computer Curriculum (These projects can be used for professional development purposes)

Introduction to Hardware

Learn about the parts of the computer.
Software: Windows
Skills: operating environment
Version: Windows XP

Introduction to the Internet

Acquire fundamental knowledge of the Internet.
Software: Internet Explorer
Skills: telecommunications

Technology Integration

Explore ways to integrate ICT into learning.

Introduction to Excel

Learn about spreadsheets by making a grade book.
Software: Excel
Skills: spreadsheets
Version: Office 2000/XP/2003

Introduction to Word

Create a newsletter to learn about word processing.
Software: Word
Skills: word processing
Version: Office XP/2003

Introduction to PowerPoint

Create a presentation for an Open House.
Software: PowerPoint
Skills: multimedia
Version: Guides for Office 2000 and XP/2003

Introduction to Email

Send, receive, and organize emails.
Software: Internet Explorer
Skills: telecommunications, word processing
Version: Hotmail

Introduction to Windows

Confidentially navigate in a Windows environment
Software: Windows
Skills: operating environment
Version: Windows 98, XP (Differences in versions are placed into notes)

Camp Computer Curriculum (These projects can be used for after school clubs, computer camp, or workshop activities)

TechnoArt

Stretch the limits of the imagination.
Software: Word, Paint, PowerPoint
Skills: multimedia, graphics
Version: Office 2000/XP/2003 (Differences in versions are placed into notes)

TechnoDetective

Solve mock crimes using the power of technology.
Software: Access, Word
Skills: databases, word processing
Version: Office 2000/XP/2003

TechnoPhotos

Use photo editing techniques to create a pop art sensation.
Software: PhotoFiltre V6 (free software)
Skills: graphics, telecommunications
Version: Office 2000/XP/2003

TechnoRelic

Uncover the meaning of an ancient Egyptian relic.
Software: PowerPoint, Word, Paint, Internet Explorer, Access
Skills: word processing, graphics, databases, telecommunications, multimedia
Version: Office 2000/XP/2003

TechnoTrader

Become an investor. Win a million or lose it all!
Software: Excel
Skills: spreadsheets
Version: Office 2000/XP/2003

TechnoCelebrity

Get the scoop on a celebrity makeover.
Software: PowerPoint, Internet Explorer, Paint
Skills: multimedia, graphics, telecommunications
Version: Guides for Office 2000 and XP/2003

TechnoKnight

Become a knight by going on a "techno" quest.
Software: Word, Paint, Internet Explorer, Access
Skills: word processing, graphics, databases, telecommunications
Version: Office 2000/XP/2003

TechnoPirate

Search for treasure to find where "X" marks the spot.
Software: Internet Explorer, Word
Skills: word processing, telecommunications
Version: Office 2000

TechnoSurvivor

Out think, out match and out assemble on TechnoIsland.
Software: PowerPoint, Word, Internet Explorer, Excel
Skills: multimedia, word processing, telecommunications, spreadsheets
Version: Office 2000/XP/2003

TechnoTribute

Honor a special person by creating a presentation that is a tribute to their life.
Software: PowerPoint, Internet Explorer (optional)
Skills: multimedia
Version: Guides for Office 2000 and XP/2003

TechnoConcert

Promote an upcoming concert tour.
Software: PowerPoint, Internet Explorer
Skills: multimedia, telecommunications
Version: Office XP/2003

TechnoOlympics

Let the Olympic spirit shine! Take part in Olympic events.
Software: PowerPoint, Word, Paint, Internet Explorer
Skills: word processing, graphics, multimedia, telecommunications
Version: Office 2000/XP/2003 (Instructions for 2000 are additional handouts)

TechnoProducer

Lights! Camera! Action! Make a movie.
Software: Movie Maker, Media Player
Skills: multimedia
Version: Windows XP

TechnoThink

Put on your thinking caps! It is time to "techno" think.
Software: Excel
Skills: spreadsheets
Version: Office 2000/XP/2003

TechnoWebsite

Contribute to the WWW by creating a website.
Software: Word, Internet Explorer
Skills: telecommunications, desktop publishing
Version: Office 2000/XP/2003 (Differences in versions are placed into notes)