Kindergarten APS Technology SOL Checklist

NETS 1: Basic Concepts and Operations
K.1.1 name technology in classroom and home
K.1.2 monitor, mouse, disk drive, keyboard, CPU, printer
K.1.3 use technology as part of classroom routines
K.1.4 turn computer on/off, log-in/log-out, launch/close application, insert/eject disk, print
K.1.5 use a mouse to make selections
K.1.6 locate alphabet keys, numeric keys, space bar, return, delete, shift, arrows
K.1.7 use printers, disk drives, CDs
K.1.8 save and retrieve work
K.1.9 save work to a disk
NETS 2: Social, Ethical, and Human Issues
K.2.1 handle technology carefully
K.2.2 operate with clean hands
K.2.3 no food or drink around computer
K.2.4 safe behavior with electrical cords
K.2.5 prevent damage to equipment
K.2.6 report problems to an adult
K.2.7 respect each other's work
K.2.8 share resources equitably
K.2.9 close windows, log-out, leave area neat
K.2.10 keep passwords private
K.2.11 discuss safety issues (don't give away personal info on the Internet)
NETS 3: Technology Productivity Tools
K.3.1 compose and publish written work – Appleworks
K.3.2 pre-writing activities – Kidspiration
K.3.3 create original art – KidPix, AppleWorks Draw or Paint
K.3.4 create a table as a class – Appleworks Spreadsheet, Graph Club
K.3.5 create a storyboard prior to all slide shows
K.3.6 create a slide show with audio and graphics – Appleworks, Hyperstudio, KidPix
NETS 4: Technology Communication Tools
K.4.1 participate in and respond to electronic field trips
K.4.2 create collaboratively a storyboard prior to all slide shows
K.4.3 create a slide show with audio and graphics – Appleworks, Hyperstudio, KidPix
NETS 5: Technology Research Tools
K.5.1 retrieve and gather info from electronic media
K.5.2 use ACORN
NETS 6: Technology Problem Solving and Decision Making Tools
K.6.1 communicate solutions to problems through graphing/drawing – Appleworks, KidPix
K.6.2 create and manipulate tables, pictographs – Graph Club, Appleworks Spreadsheet
K.6.3 use critical thinking skills when viewing video – <u>www.unitedstreaming.com</u> , VHS tapes

First Grade APS Technology SOL Checklist

NETS 1: Basic Concepts and Operations
1.1.1 disks, hard drives
1.1.2 name technology in classroom
1.1.3 name parts of computer
1.1.4 turn computer on and off, insert and eject disk 1.1.5 print, quit, new, open, save 1.1.6 ., ?, escape, tab, shift, control, apple key 1.1.7 use 2 hands
1.1.5 print, quit, new, open, save
1.1.6 ., ?, escape, tab, shift, control, apple key
1.1.7 use 2 hands
1.1.8 use a printer, disk, CD
1.1.9 observe a scanner and digital camera
1.1.10 name a file
1.1.11 save work
Note 2: Copiel Ethical and Human Issues
Nets 2: Social, Ethical, and Human Issues
1.2.1 handle technology carefully
1.2.2 operate with clean hands
1.2.3 no food or drink around computer
1.2.4 safe behavior with electrical cords
1.2.5 prevent damage to equipment
1.2.6 report problems to an adult
1.2.7 respect each other's work
1.2.8 share resources equitably
1.2.9 close windows, log out, leave lab neat
1.2.10 keep passwords private
1.2,11 discuss safety issues (don't give away personal info on the Internet)
1.2.12 use appropriate behavior
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Nets 3: Technology Productivity Tools
1.3.1 pre-writing activities - Inspiration, Kidspiration
1.3.2 create and print written work
1.3.3 add a sentence to art – KidPix
1.3.4 create and print written work with art – KidPix or Appleworks Draw/Paint
1.3.5 create a database – Appleworks Database
1.3.6 discuss the database
1.3.7 create a spreadsheet – Appleworks Spreadsheet
1.3.8 organize information in spreadsheet – Appleworks spreadsheet
1.3.9 create a storyboard – paper and pencil/chart paper
1.3.10 slide show with audio – KidPix, MS PowerPoint, Appleworks Slide Show
Nets 4: Technology Communication Tools
1.4.1 participate in telecommunication projects – email, video conferencing
1.4.2 create a storyboard – paper and pencil / chart paper
1.4.3 slide show with audio presented to an audience - KidPix, MS PowerPoint, Appleworks Slide Show
1.4.0 slide show with addio presented to all addience - Nidi IX, We I owen only, Appleworks office only
Nets 5: Technology Research Tools
1.5.1 single word search using electronic media
1.5.2 summarize & publish info received from electronic media
1.5.3 observe teacher citing an electronic source
1.5.4 use ACORN
Nets 6: Technology Problem Solving and Decision Making Tools
1.6.1 communicate solutions to problems through drawing and written description –
KidPix, Appleworks Draw / Paint
1.6.2 create and manipulate tables, pictographs – Graph Club, Appleworks Spreadsheet
1.6.3 use critical thinking skills when viewing video - http://www.unitedstreaming.com/ VHS tapes

Second Grade APS Technology SOL Checklist

NETS 1: Basic Concepts and Operations
2.1.1 list storage devices – disk, hard drive, CD-ROM, server
2.1.2 rank storage capacity – floppy disk, CD-ROM, hard drive
2.1.3 explain multimedia (combination of visual and audio/video)
2.1.4 identify examples of multimedia presented via computer
2.1.5 identify pop up menu, dialog box, tool palette
2.1.6 use instructional software for exploration and learning
2.1.7 place fingers on home keys, use 2 hands
2.1.8 locate and use all keys on keyboard
2.1.9 use the shift key
2.1.10 use shortcuts as alternatives to pulldown menus (i.e., apple key and S for File, Save)
2.1.11 use peripheral devices
2.1.12 discuss how peripheral devices can be used (camera, TV, VCR, DVD player)
2.1.13 load paper into printer
2.1.14 name files with student's name and file content
NETS 2: Social Ethical and Human Issues
NETS 2: Social, Ethical, and Human Issues 2.2.1 discuss and respect guidelines for technology use and handling
2.2.2 prevent data loss through proper practices
2.2.3 use courteous language, good manners, and be respectful
2.2.4 discuss and demonstrate good behavior when using technology
2.2.5 access only appropriate web sites
2.2.6 share resources equitably
2.2.7 close windows, log out, leave area neat
2.2.8 keep data in shared folders in their original condition
2.2.9 ideas and work are the property of the author/creator
2.2.10 discuss and practice the APS Technology Code of Ethics (cite sources)
NETS 3: Technology Productivity Tools
2.3.1 use writing software for pre-writing (Kidspiration, Inspiration, Appleworks)
2.3.2 create, edit, revise, and publish a short document (Appleworks, Hyperstudio, Story Book Weaver, MS Office)
2.3.3 select and insert computer graphics into a writing document
2.3.4 define and understand the differences between databases and spreadsheets (Appleworks)
2.3.5 define appropriate categories for labeling database fields and spreadsheet cells
2.3.6 add information to group databases and spreadsheets
2.3.7 discuss and analyze, in groups, info in databases and spreadsheets
2.3.8 create a storyboard prior to all slide shows
2.3.9 create electronic slide show with audio and graphics; share w/ audience (Hyperstudio, PowerPoint)
NETS 4: Technology Communication Tools
2.4.1 participate in electronic communication (Internet, email, telecommunication projects)
2.4.2 create a storyboard prior to all slide shows 2.4.3 create electronic slide show with audio and graphics; share w/ audience (Hyperstudio, PowerPoint)
2.4.3 Create electronic side show with additional graphics, share w/ addience (hyperstudio, PowerPoint)
NETS 5: Technology Research Tools
2.5.1 use keyword searches for an electronic encyclopedia, network resource, & Internet
2.5.2 select records from an electronic database using keywords
2.5.3 summarize and publish info retrieved from electronic media
2.5.4 locate several related articles from electronic references
2.5.5 locate graphics within electronic references
2.5.6 incorporate at least one citation of an electronic reference into a report
2.5.7 locate text info and graphics while using the Internet
NETC C. Tashualami Diahlam Californ and Dasisian Making Tasks
NETS 6: Technology Problem Solving and Decision Making Tools 2.6.1 communicate colutions to problems through webbing (Kideniration Inspiration)
2.6.1 communicate solutions to problems through webbing (Kidspiration, Inspiration)
2.6.2 use graphing software to manipulate tables, pictographs, bar graphs (Appleworks, Graph Club)
2.6.3 apply critical thinking skills when viewing and discussing video
2.6.4 participate in a project that uses reference materials on CD (World Book, library)

Third Grade APS Technology SOL Checklist

NETS 1: Basic Concepts and Operations 3.1.1 identify bits and bytes as units of measure in computer technology 3.1.2 discuss binary logic in terms of on/off current in the computer 3.1.3 identify and explain: modem, server, fax machine 3.1.4 discuss how telecommunication allows information sharing near and far 3.1.5 use terms appropriately: memory, email 3.1.6 distinguish between info in computer's memory and on a storage medium 3.1.7 select appropriate computer applications for a given task 3.1.8 select other types of technology or software for a given task 3.1.9 participate in keyboarding class (10 words/minute or better and 80% accuracy) 3.1.10 use proper keyboarding techniques 3.1.11 use camcorders, TVs, VCRs, peripheral devices 3.1.12 use a CD-ROM to play an audio CD 3.1.13 use prescribed or logical file naming to identify a student's saved work NETS 2: Social, Ethical, and Human Issues 3.2.1 discuss and respect guidelines for technology use and handling 3.2.2 prevent data loss through proper practices 3.2.3 use courteous language, good manners, and respect 3.2.4 discuss and demonstrate appropriate behavior 3.2.5 access only appropriate web sites 3.2.6 share resources and supplies equitably 3.2.7 close windows, log out, leave area neat __3.2.8 keep data in shared folders in their original condition __3.2.9 ideas and works are the property of the author/creator 3.2.10 discuss and practice the APS Technology Code of Ethics with regard to copyright & fair use **NETS 3: Technology Productivity Tools** 3.3.1 use editing functions (copy, cut, paste) and font, style, size to create, edit, revise, & publish (Appleworks) 3.3.2 insert images from digital sources (scanner, camera, CD, Internet, etc.) 3.3.3 edit images (resize, flip, crop) and insert into a document (Picture Viewer, Graphic Converter) 3.3.4 collect info and create a database and spreadsheet (AppleWorks database or spreadsheet) 3.3.5 create simple database layouts and reports (AppleWorks) 3.3.6 create graphs form spreadsheet data (AppleWorks, MS Excel) _3.3.7 create multimedia projects with audio and graphics for an audience (Hyperstudio or PowerPoint) 3.3.8 participate in creating a class video (iMovie) 3.3.9 insert a video clip into a slide show (www.unitedstreaming.com, PowerPoint) **NETS 4: Technology Communication Tools** 3.4.1 exchange info w/ an audience in another location using network communications 3.4.2 create multimedia projects with audio and graphics to share with an audience 3.4.3 participate in creating a class video and share with an audience (iMovie) 3.4.4 insert a video clip into a slide show (www.unitedstreaming.com, PowerPoint) **NETS 5: Technology Research Tools** 3.5.1 apply age appropriate information literacy skills 3.5.2 retrieve at least 3 articles from an electronic encyclopedia using keyword searches 3.5.3 find records in an electronic database using keywords (ACORN) 3.5.4 select material from electronic reference sources (on-line encyclopedias, almanacs) 3.5.5 use copy and paste functions to create notes for writing projects 3.5.6 incorporate several citations from electronic references into a project 3.5.7 retrieve text and graphics from the Internet 3.5.8 use ACORN **NETS 6: Technology Problem Solving and Decision Making Tools** 3.6.1 communicate solutions to problems through webbing (Inspiration, Kidspiration) 3.6.2 use graphing and spreadsheet software to create and manipulate graphs (AppleWorks, Graph Club) 3.6.3 use a database to identify information that can be applied to a problem 3.6.4 plan and present, using multimedia, a project that addresses a problem solving activity 3.6.5 participate in a class project that uses network and the Internet to exchange info to help solve a problem

Fourth Grade APS Technology SOL Checklist

NETS 1: Basic Concepts and Operations
4.1.1 discuss computer memory and amounts of memory needed to complete tasks
4.1.2 estimate, predict, and determine storage mediums for various tasks
4.1.3 identify bits, bytes, kilobytes, megabytes, & gigabytes as units of measure
4.1.4 discuss how computers are networked
4.1.5 select appropriate applications for a given task
4.1.6 select other technologies for tasks
4.1.7 select and operate peripheral devices (printer, scanner, camera, disk drive)
NETS 2: Social, Ethical, and Human Issues
4.2.1 discuss and respect guidelines for technology use and handling equipment
4.2.2 prevent data loss
4 2 3 use courteous language and good manners
4.2.3 use courteous language and good manners 4.2.4 discuss and demonstrate appropriate behavior 4.2.5 access only appropriate web sites 4.2.6 share resources and supplies equitably 4.2.7 close windows, log-out, and leave area neat 4.2.8 keep data and documents in shared folders in their original condition 4.2.9 ideas and work are the property of the author/creator
4 2 5 access only appropriate web sites
4 2 6 share resources and supplies equitably
4 2.7 close windows log-out, and leave area neat
4.2.8 keep data and documents in shared folders in their original condition
4.2.0 ideas and work are the property of the author/creator
4.2.10 discuss and practice the APS Technology Code of Ethics
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NETS 3: Technology Productivity Tools
4.3.1 use editing functions, font, style, & size; writing tools & drawing tools to create, edit, revise, and publish
document
4.3.2 create and publish a newsletter collaboratively using columns (Appleworks, MS Word)
4.3.3 create and publish a multi-page document, where another file is inserted into the document
4.3.4 integrate images from multiple sources into documents
4.3.5 explain when to use a database and when to use a spreadsheet (Appleworks, MS Excel)
4.3.6 manipulate database information use sort and record select functions, create reports & layouts
4.3.7 use spreadsheet info to create different graphs
4.3.8 plan & create interactive multimedia projects; share w/ an audience (Hyperstudio, MS PowerPoint)
4.3.9 use a camcorder to record video segments
4.3.10 participate in creating class video projects; share w/ an audience (iMovie)
NETS 4: Technology Communication Tools
4.4.1 implement a project that can be electronically shared w/ others in a remote location (e-mail w/
attachments, video, webpage)
4.4.2 plan & create an interactive hypermedia project (PowerPoint, Hyperstudio)
4.4.3 use a camcorder to record video segments
4.4.4 participate in creating a class video project (iMovie)
NETS 5: Technology Personal Teolo
NETS 5: Technology Research Tools 4.5.1 copyly and appropriate information literacy skills to electronic resources
4.5.1 apply age appropriate information literacy skills to electronic resources4.5.2 retrieve articles from electronic sources (on-line searches)
4.5.3 use keyword searches on the Internet
4.5.4 incorporate materials from electronic sources into multimedia projects
4.5.5 retrieve text, graphics from the Internet
4.5.6 exchange info electronically with others
4.5.7 use ACORN (Arlington County On-line Resource Network website)
NETS 6: Technology Problem Solving and Decision Making Tools
4.6.1 use technology tools to solve a problem
4.6.2 apply age appropriate critical thinking skills to gather info and critique content
4.6.3 participate in collaborative projects that use the network and the Internet to exchange info for problem
solving

Fifth Grade APS Technology SOL Checklist

NETS 1: Basic Operations and Concepts
5.1.1 Correlate computer units of measure (bits, bytes, kilobytes, megabytes, & gigabytes) to storage
devices
5.1.2 discuss similarities and differences between units of measure and the base 10 system
5.1.3 explore correlation between units of measure, base two, and binary logic
5.1.4 select and combine technology components to prepare assignments
5.1.5 select and operate peripheral devices (printer, scanner, camera)
NETS 2: Social, Ethical, and Human Issues
See and refer to K-3 objectives
NETS 3: Technology Productivity Tools
5.3.1 create & publish a multi-page document that incorporates writing tools (MS Word)
5.3.2 incorporate a brief video clip into documents (http://www.unitedstreaming.com/)
5.3.3 use record selection and sort functions of a database to answer questions (Appleworks, MS
Excel) 5.3.4 write simple formulas to calculate aproadabact information (MS Excel)
5.3.4 write simple formulas to calculate spreadsheet information (MS Excel)
5.3.5 create hypermedia projects incorporating audio & visuals; share w/ an audience (PowerPoint)5.3.6 complete multimedia projects; share w/ an audience
5.3.7 participate in creating a small video project; share w/ an audience (iMovie)
NETS 4: Technology Communication Tools
5.4.1 implement a long-term group project that is shared electronically w/ another group elsewhere
5.4.2 use network communications to publish work
5.4.3 create interactive hypermedia projects w/ audio & visuals; share w/ an audience (PowerPoint)
5.4.4 complete multimedia projects; share w/ an audience
5.4.5 participate in creating a small video project; share w/ an audience (iMovie)
NETS 5: Technology Research Tools
5.5.1 apply age appropriate information literacy skills to electronic references
5.5.2 research electronic sources using search strategies
5.5.3 cite all electronic references in projects
5.5.4 retrieve information using the Internet
5.5.5 exchange information electronically w/ others
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NETS 6: Technology Problem Solving and Decision Making Tools
5.6.1 use network resources and the Internet to solve a problem
5.6.2 use simulations to form, test, confirm, disconfirm, and revise hypotheses; model events
5.6.3 apply age appropriate critical thinking skills when viewing video
5.6.4 identify & debate the advantages & disadvantages of various materials & technologies as they
are used