

Technology Core Curriculum

JK-2 Grade Technology

Technology in the JK- 2 grades is an introduction to the use of, and navigation within, the computer hardware and software environment at a developmentally appropriate level. Lessons are curriculum based and designed to enhance and enrich learning using technology. Desktop publishing and multimedia are strong components. Keyboarding is introduced the second trimester of 2nd grade.

Essential Understandings

1. Competently navigates the technology environment at a beginning level.
2. Uses technology to enhance critical thinking skills and enrich learning at a developmentally appropriate level.
3. Demonstrates creative thinking and develops innovative products and processes using technology.
4. Uses a variety of digital media to communicate and work collaboratively.
5. Is aware of, and respects hardware, software, and intellectual properties

Junior-Kindergarten

- Manipulated the mouse appropriately
- Navigated within programs appropriately
- Recognized when their project is ready to print and retrieved printed material
- Followed oral & pictorial directions
- Printed appropriately and retrieved their project when completed (once)
- Typed their own names
- Understood the function of the printer
- Knew how to navigate within the program
- Knew how to use the color, eraser & typing box tools
- Knew how to use a simple headset
- Knew how to make slideshow
- Listened attentively to and selected online stories
- Knew how to launch program
- Begins to use keyboard shortcut to quit program

Language Arts

- Matched parts of a whole
- Developed expanded vocabulary
- Recognized name of holiday

- Understood Valentine's Day concept
- Identified rhyming words
- Recognized letters of their own name
- Associated the phonetic sound with the letters of the alphabet

Math

- Matched numbers to pictures
- Counted and matched numerals to number of objects up to 16
- Sorted & matched objects by size-big, medium, little
- Matched shapes-circle, square, triangle, rectangle
- Identified objects that did not belong to a particular group
- Identified & extended simple patterns
- Identified 3-D shapes cylinder, box, ball & cone
- Manipulated shapes to form design

Social Studies

- Identified the basic idea of the Halloween holiday and activities associated with it
- Recognized symbols associated with Halloween
- Understood concept of Father's Day and Mother's Day
- Recognizes & was able to type Dad

Science

- Identified the attributes of what makes a good pet
- Sorted & classified animals by attributes that make a good pet
- Recognized that pumpkins grow on a vine from seeds.
- Identified the change of seasons
- Recognized weather changes that identify winter
- Identified what some animals do to prepare for the winter
- Identified the change of seasons & its effect on deciduous trees vs evergreen trees
- Understood concept of snow in winter
- Selected animal pictures
- Understands that plants grow from seeds
- Identified what plants need to grow
- Understands characteristics of spring
- Knew correct order of butterfly life cycle
- Knew correct order of seasons
- Sorted animals & plants by characteristics
- Recognizes characteristics of summer
- Identified appropriate summer activities

Senior Kindergarten

- Listened attentively
- Manipulated the mouse appropriately
- Navigated within a program correctly
- Printed appropriately
- Found & opened the programs
- Quit the program using the shortcut
- Followed oral, pictorial & written directions
- Inserted & ejected a CD
- Opened link to internet site
- Opened the launcher & correct program
- Used headset correctly
- Printed using the menu bar
- Applied program tools to select varied effects
- Applied paint tools to change graphic effects
- Listened attentively to internet web site
- Navigated within the web site
- Typed correct Login & Password to log in to computer
- Located the link for my home page
- Located letters of their name on the keyboard and typed their own name
- Printed and retrieved their work
- Used key function to quit a program
- Used key function to close windows
- Used mouse to log out from the menu bar
- Followed a job sheet
- Used the Shift key to type capital letters
- Used headsets with volume control
- Used splitters to share a computer with a partner
- Used multimedia program with digital images to create slide show

Language Arts

- Found the letters of their name
- Associated the sound with the letter
- Associated sound with each letter of the alphabet and recognized alphabet names
- Followed verbal & written clues
- Recognized simple words
- Matched Upper & Lower case letters
- Recognized words with rhyming sounds
- Listened attentively to and selected online stories
- Identified beginning & ending sounds
- Identified color words
- Recognized beginning, middle & ending sounds
- Recognized & used consonant blends to make simple words

- Recognized short vowel sounds
- Blended simple sounds into words
- Recognized word families
- Drew appropriate picture to illustrate their scene in the movie

Science

- Compared & sorted common objects by physical attributes
- Recognized & created patterns
- Identified & sorted animals that are pets
- Identified basic characteristics of pandas
- Compared and contrasted ways plants & animals prepare for the winter
- Identified attributes of owls
- Identified differences in seasonal climate changes
- Located correct letter of the alphabet to answer Penguin questions using the online picture dictionary
- Listened to & read whale story
- Discussed whales
- Watched & listened to CD about different whales
- Used drawing tools to draw a whale
- Watched & listened to CD about differences between frogs & toads
- Used the Internet to view different types of frogs
- Listened to different frog sounds on the internet
- Used drawing tools to draw a frog
- Typed a simple frog title
- Discussed butterfly life cycle
- Discussed different varieties of butterflies

Social Studies

- Identified & sequenced Pet Day photos
- Identified the basic history of the first Thanksgiving
- Identified the role of Native Americans in the first Thanksgiving
- Listened to Jolly Postman story
- Discussed stamps & function of the post office
- Matched like objects
- Matched stamps to number
- Solved puzzles
- Matched postcard to state on USA map
- Listened to Madeline story
- Located France on world map

Math

- Recognized & identified numbers to 20
- Solved equations to 10

- Counted & matched numbers to 20
- Sorted by color, type & sound

Year-end Review

- Chose & was able to use different computer programs of the year

First Grade

- Listened attentively
- Logged in to the computer
- Located, Opened & Quit the Program
- Inserted & Opened CD
- Quit & Ejected CD
- Located & Opened the Group Shared Folder
- Used drawing tools appropriately
- Printed project
- Located the program using workgroups or the dock
- Used internet bookmarks
- Navigated within an internet site
- Located & opened the template in the Group Shared folder
- Graphed data and displayed the results as different graphs using a graph program
- Cooperated w/a partner using headset splitters
- Used the Internet to research a sea animal
- Saved to Group Shared
- Used the Internet to research a sea animal
- Followed a job sheet to complete the project
- Retrieved saved document
- Used the shift key to type capital letters
- Identified & played different roles in making a movie
- Located and was able to view video part in Group Shared
- Used video viewing tools in Quicktime
- Recorded voice using a microphone

Language Arts

- Followed directions to complete the task
- Asked questions & listened attentively to their friend
- Used basic rules of & grammar when writing a sentence
- Used descriptive words to write about their friend
- Solved a mystery using written clues
- Listened attentively to and selected online stories
- Identified sequence of a story
- Wrote narrative story describing an experience
- Wrote in complete sentences

- Identified and correctly used singular and plural nouns
- Used knowledge of the basic rules of punctuation & capitalization when writing
- Selected appropriate digital images to illustrate story

Social Studies

- Compared life today with life in different times
- Demonstrated an understanding of the role of Columbus in history
- Located Columbus' route across the Atlantic Ocean
- Identified and expressed reasons why we celebrate Thanksgiving
- Described the journey the Pilgrims made & identified reasons why they came
- Located & identified countries & oceans that are part of the Thanksgiving story
- Solved problems using compass directions
- Identified & selected appropriate map symbols
- Read & followed directions on a map using the compass rose to solve the mystery
- Identified & located continents & oceans
- Compared & contrasted facts about continents and oceans
- Understood the significance of the Martin Luther King, Jr holiday and the history of the people associated w/ the holiday

Math

- Counted & identified number
- Solved addition & subtraction problems
- Identified one more than
- Counted & grouped numbers by 1's & 10's
- Collected & graphed data
- Interpreted data
- Knew the organization of the calendar into years, seasons, months, weeks & days
- Tells time to the nearest half hour & relates time to events
- Identified and knew the value of coins & showed different combinations of coins that equal the same value
- Showed knowledge of the meaning of addition and subtraction
- Made decisions about how to set up a problem
- Solved addition & subtraction problems with one and two-digit numbers
- Identified tens and ones

Science

- Identified different spiders & their characteristics.
- Understood the difference in temperature in winter
- Selected a sea animal and recorded its name, knew what it looked like & retold facts

Second Grade

- Listened attentively
- Logged in to the computer
- Located, opened & quit the program
- Inserted & opened CD
- Quit & ejected CD
- Used the drawing tools appropriately
- Printed project
- Used simple word processing tools
- Selected appropriate backgrounds & graphics
- Followed written directions
- Animated graphics
- Selected appropriate music to enhance the story
- Knows basic keyboarding
- Imported a graphic to a word processing document
- Downloaded photos to iPhoto
- Made a slide show with pictures, sound & transitions
- Understood how to save & retrieve multiple documents
- Took photographs on field trip
- Understands how to search web sites for information
- Knows how to upload photographs to a software program
- Evaluated class slide shows
- Made a video with pictures, sound and transitions

Language Arts

- Followed oral & written directions to complete task
- Organized & grouped information
- Explained characteristics and relationship of each family member
- Wrote sentences using basic rules of grammar
- Used descriptive words to write about their family
- Applied capital letters & page layout design for a title page
- Organized story using notes
- Researched facts about a family member
- Used capitals & periods appropriately
- Wrote in complete sentences
- Grouped related information & followed a logical sequence
- Applied basic spelling skills
- Used correct tense
- Selected appropriate graphics & backgrounds to enhance the story
- Proofread for errors & made corrections
- Wrote Flat Stanley story
- Selected appropriate photographs for story
- Grouped related ideas and maintained a consistent focus
- Wrote narratives based on their experiences

- Understands the format and purpose of a title page
- Moved through a logical sequence of events
- Described the setting, objects and events in detail
- Correctly used complete sentences, and parts of speech
- Used correct punctuation & capitalization

Social Studies

- Compared & contrasted their lives with ancestors
- Traced the history of an ancestor
- Located on a map where people emigrate from
- Identified reasons for emigration
- Photographed famous places around the world
- Identified famous places around the world
- Identified relevant facts
- Identified famous people
- Researched a famous person
- Wrote and illustrated a story about a famous person

Math

- Identified the components of the calendar as the year changes
- Solved addition and subtraction problems
- Analyzed data to complete graph.
- Identified the value of different denominations of money
- Understood mathematical symbols (<, >, and =) and used appropriately
- Interpreted numbers in expanded notation

Third Grade

Technology in the 3rd grade continues the development and exploration of the use of, and navigation within, the computer hardware and software environment at a developmentally appropriate level. Lessons are curriculum based and designed to enhance and enrich learning using technology. Desktop publishing and multimedia are strong components, as is keyboarding.

Essential Understandings

1. Competently navigates the technology environment at an intermediate level.
2. Uses technology to enhance critical thinking skills and enrich learning at a developmentally appropriate level.
3. Demonstrates creative thinking and develops innovative products and processes using technology.

4. Uses a variety of digital media to communicate and work collaboratively.

5. Is aware of, and respects hardware, software, and intellectual properties

- Listened attentively
- Located, opened & quit a program using workgroups & the dock
- Applied beginning keyboarding skills
- Applied beginning word processing concepts and skills
- Imported a graphic
- Designed a basic graphic
- Printed
- Photographed fellow students using principles of composition
- Uploaded photos to computer
- Followed direction sheet
- Set a Home page and bookmarked a site on the Internet
- Imported photos to software program
- Applied keyboarding speed and accuracy using the number keypad
- Used arrow keys correctly
- Imported photos into a graphic design
- Demonstrated understanding of how to export and import a graphic
- Downloaded photos to iPhoto
- Navigated web sites to find information
- Manipulation of photograph

Math

- Solved Addition & Subtraction problems
- Choose correct action to solve problem
- Identified relationships and patterns
- Graphed collected data
- Analyzed data to complete graph
- Added and subtracted facts proficiently using regrouping
- Identified the value of different denominations of money
- Estimated sums and differences
- Expressed numbers with correct place value to 999
- Understood mathematical symbols-, >, &= and used appropriately
- Interpreted numbers in expanded notation
- Identified weekly, monthly, and yearly calendar components
- Demonstrates proficiency of addition & subtraction facts with regrouping
- Able to estimate

Language Arts

- Used the camera to take introspective portraits
- Downloaded photos to iPhoto

- Manipulated graphic design for self expression
- Wrote a five sentence paragraph
- Demonstrates knowledge of rules of capitalization and punctuation
- Demonstrates ability to recognize complete sentences
- Demonstrates understanding of common American idioms

Social Studies

- Located facts about California
- Located & identified data for states of the United States
- Problem-solved using deductive reasoning
- Located & Identified documents important to democracy
- Identified branches of government
- Understands representative government on national, state & local level
- Researched Greek God or Goddess
- Drew manipulated photograph illustration of selected God or Goddess
- Wrote story
- Explored the role of myths and legends in Native American cultures
- Wrote an original legend
- Made a legend video with pictures, sound and transitions