

3rd Grade 1st Quarter

APS Technology Objectives*

- 3.1.9 -- Participate in keyboarding class (10 words/minute or better and 80% accuracy)
- 3.1.10 -- Use proper keyboarding techniques
- 3.2.1 -- Discuss and respect guidelines for technology use and handling
- 3.2.3 -- Use courteous language, good manners, and respect
- 3.2.4 -- Discuss and demonstrate appropriate behavior
- 3.2.6 -- Share resources and supplies equitably
- 3.3.1 -- Use editing functions (copy, cut, paste) and font, style, size to create, edit, revise, & publish (AW)
- 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

**The APS Objectives listed above are correlated to the 6 areas of the ISTE NETS•S and to the Virginia Computer/Technology Standards of Learning (VA C/T SOL).*

Theme: Hispanic Heritage (September 15-October 15)
Enduring Understanding: Change Is Everywhere around Us!
Essential Questions:

CONTENT

Fiction ♦ Sentence Structure ♦ Ancient Civilizations ♦
Economics ♦ Simple Machines ♦ Healthy Lifestyle ♦
Numeration ♦ Maps ♦ Graphs ♦ Charts

Integrated Ideas

Learn How to Type!

Participate in Type to Learn for 15-20 minutes/day each day for 5-6 weeks. Reinforce keyboarding skills. Use keyboarding time to discuss proper technology practices.

Type to Learn

Simple Machines

Create a database with fields about simple machines. Have students research and find simple machines. Enter new records about the simple machines and their characteristics. Insert a picture of each simple machine.

Appleworks Database

Research!

Conduct effective research using technology. Content could cover fictional books' authors, simple machines, economic concepts, ancient civilizations, healthy living, and graph gleaning. Compose and publish a written work.

Internet, Appleworks Word Processing, MS Word, ACORN

Capture a Concept from Ancient Times

In pairs, students research one concept from Ancient Rome or Ancient Greece (i.e., Parthenon, architecture, democracy). Then, add graphics and text from the Internet to create a poster about the concept. Share final products with classmates.

Internet, Appleworks Word Processing, MS Word, ACORN

3rd Grade 2nd Quarter

APS Technology Objectives*

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

3.1.5 -- Use terms appropriately: memory, email

3.1.6 -- Distinguish between info in computer's memory and on a storage medium

3.1.13 -- Use prescribed or logical file naming to identify student saved work

3.2.2 -- Prevent data loss through proper practices

3.2.7 -- Close windows, log out, leave area neat

3.2.8 -- Keep data in shared folders in their original condition

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 from spreadsheet data (AppleWorks)

3.6.2 -- Use graphing and spreadsheet software to create and manipulate graphs (AppleWorks, Graph Club)

6.3 -- Use a database to identify information that can be applied to a problem

**The APS Objectives listed above are correlated to the 6 areas of the ISTE NETS•S and to the Virginia Computer/Technology Standards of Learning (VA C/T SOL).*

Theme:

Enduring Understanding: Change Is Everywhere around Us!

Essential Questions:

CONTENT

Folk Tales, Fables, and Fairy Tales ♦ Paragraph writing ♦

Explorers and Economics ♦ Seasons, Tides, Moon, Systems in the Sky ♦ Making Good Choices / No Drugs ♦ Geometry ♦

Division and Multiplication ♦ Measurement ♦ Hemispheres

Integrated Ideas

A Bit, A Byte, A What?

Discuss with students computer units of measurement and memory. Invent multiplication and division problems to figure out how many bits are in a gigabyte or bytes in a megabyte.

MS Excel

Story Inventory

Create a database on different folk tales, fables, and fairy tales. Each record should contain story map fields (author, title, characters, etc.). Students enter information as they read the stories.

Appleworks Database, MS Excel

Explorers of the Past

Create a database on explorers. Each record should include fields pertaining to where the explorer went, when, why, and his/her successfulness. Then, use Timeliner to create an Explorer Timeline.

Appleworks Database, Timeliner

Shapes and Measurement

Create a spreadsheet that describes shapes and their characteristics (2D/3D, # of vertices, # of faces, etc.). Locate these shapes around your classroom, measure, and record information in the spreadsheet. Then, make a graph.

MS Excel

3rd Grade 3rd Quarter

APS Technology Objectives*

3.1.11 -- Use camcorders, TVs, VCRs, peripheral devices

3.1.12 -- Use a CD-ROM to play an audio CD

3.2.5 -- Access only appropriate web sites

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

3.3.8 -- Participate in creating a class video (iMovie)

3.4.3 -- Participate in creating a class video and share with an audience (iMovie)

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Theme: Black History Month / Women's History Month
Enduring Understanding: Change Is Everywhere around Us!
Essential Questions:

CONTENT

Biographies ♦ Autobiographies ♦ US Government ♦ Famous Americans with Economics ♦ Living things and nature ♦ Safety with rules ♦ Fractions and Decimals ♦ Locations and Environment

Integrated Ideas

*Note: Creating a video entails drafting a storyboard, filming clips, editing footage, adding audio and transitions as necessary, and saving the final product. Video projects are time-intensive, so you may want to focus on one video project for the entire quarter or divide the class into several groups with each group completing one of the projects listed below.

My Video Autobiography

Each student will create a short video depicting his/her life. Video can include pictures from the student's childhood, an interview, and objects/symbols representing his/her life.

iMovie

Rules and Rights? What do they mean to me?

As a class, create a short video about the U.S. government's rules and our individual rights. Apply those rules and rights to real life situations in the students' lives.

iMovie

Famous Americans

Students research famous Americans from History SOL 3.11b. Students role-play or interpret one famous person from history. Record the performance and edit clips to create a short video about Famous Americans.

iMovie

3rd Grade 4th Quarter

APS Technology Objectives*

3.1.3 – Identify bits and bytes as units of measure in computer technology

3.1.4 – Discuss how telecommunication allows information sharing near and far

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

3.3.2 – Insert images from digital sources

3.3.3 – Edit images and insert into a document

3.3.7/3.4.2 – Create multimedia projects with audio and graphics for an audience

3.3.9/3.4.4– Insert a video clip into a slide show

3.4.1 – Exchange information with an audience in another location using network communications

3.6.1 – Communicate solutions to problems through webbing

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 information to help solve a problem

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Theme: Asian / Pacific Heritage Month

Enduring Understanding: Change is Everywhere around Us!

Essential Questions:

CONTENT

Diaries ♦ Letter Writing ♦ Writing non-fiction reports and stories ♦ Economics ♦ Resources ♦ Family Life Education ♦ Multiplication ♦ Division ♦ Problem Solving ♦ Novels

Integrated Ideas

Problem Solving – Math

Create a simple slide show of a math word problem. Include the word problem, the steps to solve the problem, and appropriate graphics.

MS PowerPoint, Hyperstudio, Appleworks Slide show

Problem Solving – Real Life

As a class, brainstorm a real life problem in the school or in the neighborhood. Describe the problem, research the history/cause of the problem, and suggest possible solutions. Create a slide show of the causes and effects of this problem with your solutions. Show the slide show to students or school and community officials.

MS PowerPoint, Hyperstudio, Appleworks Slide show

It's the Truth

Each student will research one topic and create a non-fiction report about the topic in the form of a slide show. Incorporate graphics, audio, and video where appropriate. Present the report to classmates.

MS PowerPoint, Hyperstudio, Appleworks Slide show