2nd Grade 1st Quarter

APS Technology Objectives*

2.1.7 – Place fingers on home keys, use 2 hands

2.1.8 – Locate and use all keys on the keyboard

2.1.9 – Use the shift key

2.1.10 – Use shortcuts as alternatives to pulldown menus

2.2.1 – Discuss and respect guidelines for technology use and handling

2.2.9 – Discuss that ideas and work are the property of the author/creator

2.2.10 —Discuss and practice the APS Technology Code of Ethics

2.3.1 – Use writing software for pre-writing – Kidspiration, Inspiration, AppleWorks, MS Word

2.3.2 – Create, edit, revise, and publish a short document – Appleworks, MS Word

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, The World Around Us
Enduring Understanding:
Essential Questions:

CONTENT

Communities / Citizenship ✦ Geography ✦ Matter and Magnets ✦ Friends ✦ Feelings ✦ Safety ✦ Patterns ✦ Addition and Subtraction to 100

Integrated Ideas

What Is a Community?
Students create a picture illustrating what a community is.
Kidspiration, KidPix, Appleworks Draw/Paint

What Can a Keyboard Do?
Have students explore the various keys on the keyboard and what the keys do. Then, have students write a short story using a variety of the keys. Encourage them to use the different keys as appropriate.
Appleworks Word Processing, MS Word

What Does Copyright Mean?
Discuss the APS Code of Ethics. Explain what copyright is and how ideas belong to the author / creator. As a class, use Kidspiration to record titles of the children's favorite books and the names of the authors and illustrators.
Kidspiration

Writing Center
Create, edit, revise, and publish a piece on friends, feelings, and / or safety. Collaborate with the school counselor, nurse, or P.E. teacher to develop topics and ideas for writing with the students.
Appleworks Word Processing, MS Word

Solve a Problem
Students write an original math problem and solve. Include a picture to go with the math problem.
KidPix

2nd Grade 2nd Quarter

APS Technology Objectives*

2.1.1 – List storage devices: disk, hard drive, CD-ROM, server

2.1.2 — Rank storage capacity

2.1.5 – Identify popup menu, dialog box, tool palette

2.1.14 – Name files

2.2.2 – Prevent data loss

2.2.7 – Close windows, log out, leave area neat

2.2.8 – Keep data in shared folders in their original condition

2.3.4 – Define and understand the differences between databases and spreadsheets

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, information in databases and spreadsheets

2.5.2 – Select records from an electronic database using keywords

2.6.2 – Use graphing software to manipulate tables, pictographs, and bargraphs

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: "Past to Present to Future"
Enduring Understanding:
Essential Questions:

CONTENT

Native Americans ✦ Ancient Egypt ✦ Ancient China ✦ Space ✦ Nutrition ✦ Preventing Disease ✦ Adding and subtracting 2 and 3 digit numbers

Integrated Ideas

Storage Math
Write a math problem using storage capacity of the different storage devices. Discuss how to save work and the different places one can save work.
MS Excel or Appleworks Spreadsheet

Who Are the Native Americans?
Write a non-fiction paragraph about the Native Americans. Use the dialog boxes and toolbars as short cuts for saving work, changing fonts, etc.
MS Word, Appleworks Word Processing

People of Our Past
Create a database about the people of our past. Add information to the database as students learn more about the Native Americans, Ancient Egyptians, and people of Ancient China. Include pictures of these people in the database.
Appleworks Database

How Many? How Much?
Focus on spreadsheets by calculating Outer Space data, keeping a record of foods consumed for the week and totals by food group, or by having an activity to check math work. Add graphs of the data to the spreadsheet.
Appleworks Spreadsheet or MS Excel

2nd Grade 3rd Quarter

APS Technology Objectives*

2.1.11 – Use peripheral devices

2.1.12 – Discuss how peripheral devices can be used

2.1.13 – Load paper into printer

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 websites

2.2.6 – Share resources equitably

2.5.1 – Use keyword searches for an electronic encyclopedia, network resource, and Internet

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

2.6.4 – Participate in a project that uses reference materials on CD

*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: "Pattern Makers & Pattern Breakers" (da Vinci unit)
Enduring Understanding:
Essential Questions:

CONTENT

Economics ✦ Influential People ✦ Weather ✦ Medicines / Drugs / Dental Care ✦ Money ✦ Measurement ✦ Time ✦ Numbers to 1000

Integrated Ideas

What's the Weather? (da Vinci)
Students gather weather data from a city in the world. Enter the data into a spreadsheet. Graph the data. Create a slide show of a news weather forecast about that city's weather.
Internet Browser, MS Excel, MS PowerPoint, Hyperstudio

Explore Peripherals
Have students take digital pictures of the weather and the clouds. Transfer the digital pictures to the computer and print. Create a *Capture the Weather* photography class book.
Picture Viewer, Graphic Converter, MS Word

Mining for Influential People
Mine the web for facts about influential people using hotlists, scrapbooks, subject samplers, treasure hunts, or webquests. Use electronic references to find more information. Create a final product about the people. Include graphics and citations.
MS Word, MS PowerPoint, Hyperstudio, Appleworks

Has Money Always Been a Part of Our Economy?
Students do a keyword search using electronic (on-line or on CD) encyclopedias and the Internet to mine for facts about money.
Internet, Electronic Encylopedia

2ⁿᵈ Grade 4ᵗʰ Quarter

APS Technology Objectives*

2.1.3 – Explain multimedia

2.1.4 – Identify examples of multimedia presented via computer

2.1.6 – Use instructional software for exploration and learning

2.3.8/2.4.2 – Create a storyboard prior to all slide shows

2.3.9/2.4.3 – Create electronic slide show with audio and graphics; share with an audience

2.4.1 – Participate in electronic communication

2.6.1 – Communicate solutions to problems through webbing

2.6.3 – Apply critical thinking skills when viewing and discussing video

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: "Cycles and Structure" / Asian Pacific Am. His. Month
Enduring Understanding:
Essential Questions:

CONTENT
Government ✦ Life Cycles ✦ Plants/Interdependence ✦ Personal Growth ✦ Geometry ✦ Fractions ✦ Probability ✦ Introduction to Multiplication and Division

---

Integrated Ideas

I Am Growing!
Explore multimedia. Students make a slide show of how they have grown during the year.
MS PowerPoint, Hyperstudio

What's Happening Here?
Introduce a local challenge or problem. Have students brainstorm ways to solve the problem. Write a local government official or appropriate person to ask questions about the issue and share ideas. Create a slide show presentation to present the issue and solution. Go through all phases of a multimedia project from planning and storyboarding to making and revising to publishing and performing/sharing.
Email, Kidspiration, **MS PowerPoint, Hyperstudio**

Discover Life Cycles!
Capture a life cycle on video. As a class, take pictures or record using a digital video camera the different stages of a life cycle. Edit the footage. Create a short video about the life cycle.
iMovie

What Can I Learn about . . . ?
Use an instructional software program for students to explore government, life cycles, plants, or math.
Programs will vary.