


## Pixel Projects



digital images across the curriculum

## Pixel Projects



Learn essential techniques for capturing, editing, and using digital images in the classroom. Explore some basic editing and project ideas using Adobe Photoshop Elements 2.0 as a stepping stone. Leave with handouts, a web link to my templates, and the confidence to use these in your class tomorrow.

## What can you expect to take away from this workshop?

- Camera use tips and techniques
- Camera purchase tips
- Project ideas - view samples get ideas
- Editing, printing, storing images
- Templates
- Confidence

## Choosing and using your camera...

- List your needs
- Brand you trust
- Price
- Storage
- End results desired




## Storage

- Mini CD /DVD
- Media Cards
  - Memory Stick - SONY
  - Picture Card - FUJIFILM
  - Microdrive - IBM
  - CompactFlash - independent
    - 285 cameras - many brands
  - MultiMedia Card
  - SmartMedia
  - Secure Digital
- Generic products now available



## NiMH Batteries



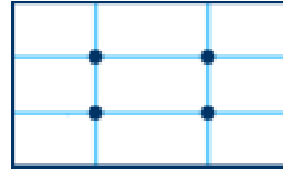
- Nickel Metal Hydride
- Charged before first use -rechargeable
- Cycle 3-5 to reach peak performance
- Allow to cool (coins)
- Can last 500-1000 charges with care
- Partial charge OK
- Need NiMH charger
- Self-discharge in 3 or so weeks

## Capturing Images

- Check batteries / bring extras
- Bring extra storage disks / cards
- Focus! Focus! Focus!
- Adjust now for size of file
- Adjust for all other settings
- Hold camera steady / tripod
- Shoot one or two images...then
- Check settings after first shot!!!

## Good Photo

- Light and contrast
- Focus
- Rule of Thirds



## Image Sources

- Create graphics from scratch
- Digital cameras
- Film to CD or disk
- Scan
- Picture of picture
- Digital microscope
- Internet
- Purchase Stock Images

## Common Image Formats

- TIFF - Tagged Image File Format
- GIF - Graphics Interchange Format
- JPEG - Joint Photographic Experts Group
- PNG - Portable Network Graphics
- PICT - QuickDraw Picture Format (Apple)
- BMP - Bit Mapped
- EPS - Encapsulated Postscript (Adobe)

## Image formats for printers

- TIFF - Tagged Image File Format
  - Bitmap (raster) grayscale, RGB, CMYK
  - Versatile and compact
  - Cross platform
  - Color resolution up to 48 bits
  - Opacity and transparency
  - CMYK color separation

## Image format for flat color

- GIF - Graphics Interchange Format
  - CompuServe - Bitmap (raster)
  - 24 bit color
  - 256 colors
  - Great compression
  - Good for solid colors - web

## Image format for photos

- JPEG - Joint Photographic Experts Group
  - compressed bitmap
  - PC and Mac
  - best for transmitting and viewing photographs over the Internet, has more info than gif and more subtle variations of color

## Multipurpose web

- PNG - Portable Network Graphics
  - Well compresses raster images
  - Cross platform
  - 16 bit color
  - Created for WWW
    - Fully streamable progressive display

## Apple Computer

- PICT - QuickDraw Picture F ormat
  - Apple - Vector and bitmap
  - Mac (PC and UNIX)
  - A language and a format
  - 8 bit color

## PC image format

- BMP/DIB Bitmap Device Independent Bitmap
  - Microsoft -bitmap
  - PCs that run Windows
  - 1,4,8, or 24 bits

## Image Format - Adobe Illustrator

- EPS- Encapsulated Postscript
  - Adobe Systems - mostly vector images
  - Mac (also PC and UNIX)
  - Grayscale, RGB, CMYK, monotone, duotone, tritone, quadtone
  - Describes vector images

## Visual Literacy

Six modes of visual learning

## Learning by seeing

- Exploring - understanding the world
- Recording - freezing time
- Communicating - share information
- Expressing - reveal thoughts / feelings
- Motivating - change behavior or attitude
- Imagining - encouraging new connections & relationships

## What will I do with these images?

- Print on:
  - paper / card stock / photo paper
  - Fabric
  - Mugs
  - Mouse Pads
  - posters
- Screen
- Web / presentation

## Types of Projects

- Student products
- Teacher products
- Screen / Web
- Print

## Student Projects

- Reports
- Portfolios
- Displays
- Print
- Slide Presentations (linear)
- Multimedia (non linear)
- Video
- Web (linear or non linear)

## Daily Integration Ideas

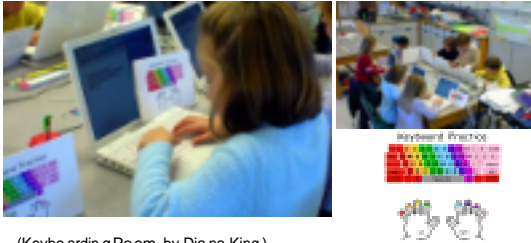
- Weather watcher
- Plant monitor
- Photographer of the week
  - Capture learning in action
- Monthly photo - same spot / object
- Close-up / guess what or guess where

## Teacher Productivity

- Slides / Overheads
- Worksheets and Newsletters
- Maps / webs / templates
- Graphic organizers
- Story starters
- Seating charts / check in boards
- Exemplars
- Report Cards...include images

## Teaching Aids

- Keyboard finger chart



(Keyboarding Poem by Diana King)

## Photo Cube



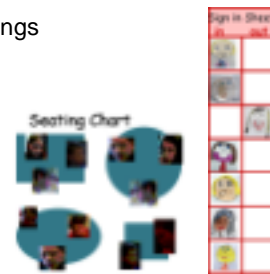
## Loop Tape "Dice"

- Choose groups / partners / assignments



## Classroom Aids

- Photos or drawings
- Sub plans
- Seating charts

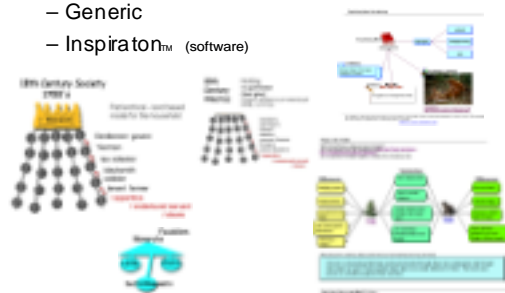


## Self Portraits



## Teaching Aids

- Graphic Organizers
  - Generic
  - Inspiration™ (software)

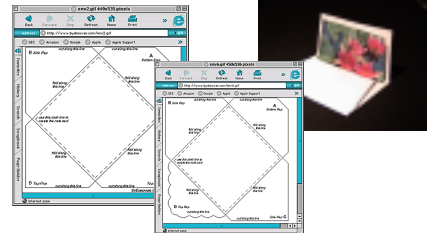


## E-mail an Expert



## Create Project Templates

- Envelope Templates



## Awards / Rewards

- Certificates
- Rewards
- Class coupons
- Checks



## Create "Gifts"

- Calendars
- Mugs
- Magnets
- Pads / envelopes
- Stickers
- Mouse Pads
- Phone Books



Thank you

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