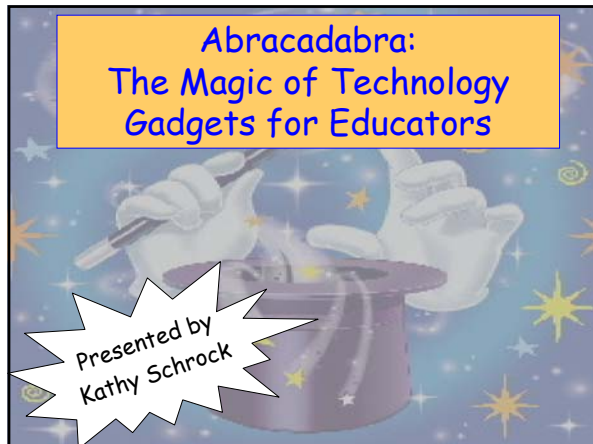



**Abracadabra:  
The Magic of Technology  
Gadgets for Educators**



Presented by  
Kathy Schrock

**"Any sufficiently advanced  
technology is indistinguishable  
from magic."**

Arthur C. Clarke,  
Science fiction writer






Buy it, try it...  
sell it on eBay!

**Overview**

- ISTE NETS\*Teachers
- Technology "memory lane"
- Gadgets for storing data
- Gadgets for the classroom
- Gadgets for you
- New and upcoming gadgets
- Web site:  
<http://kathyschrock.net/magic/>

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**ISTE NETS\*T**  National Educational  
Technology Standards (NETS)

1. Technology Operations and Concepts
  - Skills to stay abreast of emerging technologies
2. Planning and Designing Learning Experiences
  - Support the diverse needs of learners
3. Teaching, Learning, and the Curriculum
  - Enhance higher-order thinking skills
4. Assessment and Evaluation
  - Collect and analyze data
5. Productivity and Professional Practice
  - Use technology to enhance personal productivity
6. Social, Ethical, and Human Issues
  - Model and teach ethical practice in technology use

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**Rutgers College 1975-1979**



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## Other Technologies



Ashameless Barr @ Blogspam.net, 2004

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[www.oldcomputers.net](http://www.oldcomputers.net)  
[www.obsoletecomputermuseum.org](http://www.obsoletecomputermuseum.org)

## Other Technologies



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## Other Technologies



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[www.oldcomputers.net](http://www.oldcomputers.net)  
[www.obsoletecomputermuseum.org](http://www.obsoletecomputermuseum.org)

## Other Technologies

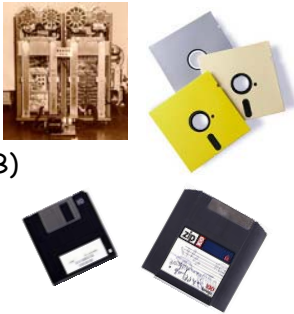


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[www.oldcomputers.net](http://www.oldcomputers.net)  
[www.obsoletecomputermuseum.org](http://www.obsoletecomputermuseum.org)

## History of external storage

- Tape storage
- Floppy disk
  - 5.25" (640 kb)
  - 3.5" (1.44 MB)
- Zip® disk (100 MB)



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## Flash storage

- Many different "flavors"
  - SD (secure digital)
  - CF (compact flash)
  - MS (memory stick)
  - xD (extreme digital)
  - T-flash (Transflash)
- Universal readers available



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## Cross-over device

### SanDisk Ultra II SD Plus

SD card with built-in USB connector

512 mb \$110  
1 gb \$150



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## Sample universal readers



External USB readers (\$19)



PC Card Reader (\$19)



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## Gadgets for storing data

- Thumb/flash/keychain/pen drives
- Benefits
  - Cross-platform
  - No hardware drivers needed
  - USB connection
  - Move large amounts of data around
  - Inexpensive

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## Sample USB flash drives

32 to 512 MB= 23 to 365 floppies



USB storage device (\$35)

SanDisk MobileMate SD+ (\$20)



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Edge DiskGO! watch (\$80)  
128 or 256 MB= 90 or 180 floppies

## Dual device: Storage/802.11b

Soyo Wireless Flash Drive  
www.soyousa.com (\$110)

- 128 MB storage
- 802.11b "card"



128mb storage & wireless access

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## Dual device: Storage/802.11b

Iogear Mouse/Flash Drive  
www.iogear.com (\$50)

- USB optical mouse
- 32 MB flash storage



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## Dual device: Storage/Pen

Attache Pen with USB  
www.pny.com (\$70+)

- 128-512 MB of storage
- Pen that writes!



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## "Stylin" Storage



64 MB storage  
Iomega MicroMini USB2 Drive  
www.iomega.com (\$50)



128/256/512 MB storage  
Iomega Mini USB2 Drive  
www.iomega.com (\$70+)

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## "Stylin" Storage

Imation Flash Wristband  
[www.imation.com](http://www.imation.com)

- Wristband
- Flexible rubber
- Available at Target
- 256mb
- \$39.99



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## USB Data Transfer

FlashPoint Share Drive  
[www.flashpointdrive.com](http://www.flashpointdrive.com)

- Can act as a regular flash drive
- Has its own battery
- Can move data from one share folder on one drive to another
- No computer needed



• 512MB-2GB \$95-\$245

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## USB Data Transfer

Memsen Click N' Share  
[www.memsen.com](http://www.memsen.com)

- USB flash drives that can wirelessly share information
- Will be out soon
- \$100 for 2



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## More USB Storage



256 MB storage device  
USB Devil Ducky Drive  
[www.thinkgeek.com](http://www.thinkgeek.com) (\$100)

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## More USB storage

- iDuck
  - USB memory storage
  - 16 MB - 512 MB models
  - \$49 - \$329
  - Lights up
  - [www.dynamism.com](http://www.dynamism.com)



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## More USB storage

- SwissMemory USB
  - 128 - 512mb MB storage
  - Flashlight and pen
  - Knife and scissors
  - \$99-160
  - [www.victorinox.ch](http://www.victorinox.ch)



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## More USB storage

- Plush Mouse Flash Drive
  - 128 MB storage
  - Cuddly
  - \$40
  - <http://www.cyberguys.com/>



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## More USB storage

- In the Pink
  - 128 MB storage
  - Looks like a lipstick case
  - \$20
  - <http://www.shinyshiny.tv/>



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## More USB Storage



- Sushi Flash Drive
  - 32-128 MB
  - \$60-100



• [www.dynamism.com](http://www.dynamism.com)

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## S.O.A.P. on a Rope

### Creative Nomad MuVo TFXM

- 256mb MP3 player
- FM Radio and voice recorder
- OpenOffice
- Thunderbird and Firefox
- \$73 (applications are free!)
- <http://kathyschrock.net/soap/>



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## U3

### GeekSquad® USB 2.0 Flash drive

- 512mb or 1gb
- Available from Best Buy
- Easy interface
- Includes applications
- Windows only
- \$60/100
- [bestbuy.com](http://bestbuy.com)



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## External storage drives

- USB 2.0 or FireWire connections
- Dedicated or multi-function devices
- Great for back-up and data storage
- LOTS of storage capability!



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## External storage drives

30/60gb=  
21,940/43,880 floppies

Apple iPod  
(\$299/399)



250gb= 183,000 floppies



Maxtor External 250gb  
USB/Firewire  
Hard Drive (\$370)



2/4gb=  
1462/2924 floppies

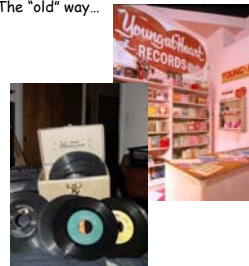
Apple iPod Nano (\$199+)



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## Buying and storing music

The "old" way...



The "new" way...



Online music downloads for 99 cents

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## Playing Music

- **iRock** ([www.myirock.com](http://www.myirock.com))
- Plugs into headphone jack
- Plays over one of four FM frequencies
- Can use in the car or at home, with a handheld, CD player, or cassette player
- \$79



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## Playing Music

- **Sony Personal Travel Speakers**
- Plugs into headphone jack
- Fold up for easy carrying
- Uses 4 AA batteries
- \$50



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## Playing Music

- **Mini Speakers**
- USB-powered
- \$15
- [www.cyberuys.com](http://www.cyberuys.com)



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## Playing Music

- **Inflatable Speakers**
- Small pump included
- \$25
- [www.geeks.com](http://www.geeks.com)



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## Playing Music

- **Soundbug**
- Plugs into headphone jack
- Attaches to hard surface
- Uses 3 AA batteries
- \$28
- [www.soundbug.biz](http://www.soundbug.biz)



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## Playing Music

- **MP3 on Channel**
- Plugs into cigarette lighter
- Accepts a USB thumb-drive
- Plays over car radio
- \$70
- [www.cyberguys.com](http://www.cyberguys.com)



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## Archiving Music

### PlusDeck 2c

- Fits in a computer bay
- Records your songs in MP3 format
- Records from PC to tape
- \$140
- [www.thinkgeek.com](http://www.thinkgeek.com)



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## The "old" meets the "new"

### Verbatim

Digital Vinyl CD-Rs  
10 pack \$9.00



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## The "old" meets the "new"

### Verbatim

Digital Movie DVD-R's  
4 pack \$9.99



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## Personal digital assistants



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## Personal digital assistants 2



Sharp organizer



Apple Newton  
≈\$1000

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## Handheld Computers

- \$150-299 price range
- Removable storage
- Great color screens
- Plenty of internal memory
- Hundreds of educational programs



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## Choices

### Palm OS



Palm  
E2  
(\$199)

Palm  
T1X  
(\$299)

### Windows Mobile OS



HP iPAQ  
rx3115  
(\$299)

Dell  
Axim x51  
(\$239+)

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## Educational Applications

### Handheld Dictionary



### Moon Phase



### Cells



### E-mail



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## Accessories



External keyboards (\$79)

iPAQ NAVMAN  
(\$300)



SanDisk SD/CF 802.11b card  
(\$130)



Veo SD/CF camera (\$99)



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## Accessories



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## More advanced choices



Audiovox XV6700 \$499    palmOne Treo 650 \$400    Garmin iQue 3600 \$460    Palm LifeDrive \$499

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## More advanced choices

- Nokia 770
- Wireless
- Bluetooth
- Flash memory
- USB connect
- Video formats
- Browser
- \$359



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## More advanced choices

### Fossil Wrist PDA FX2008

- 8MB (RAM), 4MB
- Palm OS 4.1
- 160 x 160 pixels
- 16 level grayscale
- Touch Screen
- Stylus in wristband



\$249

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## Presentation accessories

Margi Presenter-to-Go (\$199)



iGo Pitch Duo (\$279)



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## Presentation hardware

### Mitsubishi PocketProjector

- 800x600
- Uses an LED bulb
- Ten year bulb life
- 20" throw from 12"
- 40" throw from 36"
- Available early 06
- \$699



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## 3-D Presentation options

- Opaque projector

OPUS Opaque Projector by Buhl (\$1400)



Visual Presenter by Elmo (\$1500)

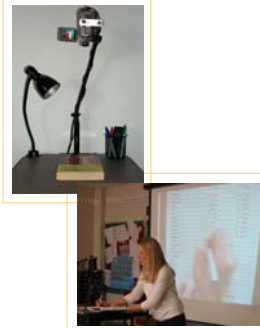


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## 3-D Presentation options

### Lightsmith Video Platform

- Camcorder mounted on a flexible arm
- Can capture to tape
- Attach via Firewire
- \$199.99
- [lightsmithimager.com](http://lightsmithimager.com)



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## Scanning Option

Vertical Scanner (\$200)  
[www.hp.com](http://www.hp.com) (HP 4670)

- 2400 dpi
- Can view items as you scan
- Can use it flat, too
- Can scan big things and stitch them together



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## ZipLinq cables



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## Writing Technology



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## The Tablet PC

- Input via separate EMR pen
- Keep items handwritten
- Search handwritten documents
- Turn handwriting into typed text



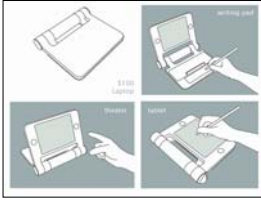
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## Various Tablet PC's

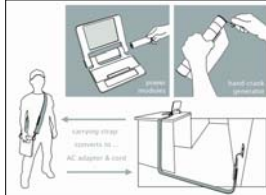


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## \$100 Laptop



- Linux-based
- Traditional and wind-up power
- WiFi and many USB ports
- 500 mHz, 1 GB hard drive
- DVD player-like screen

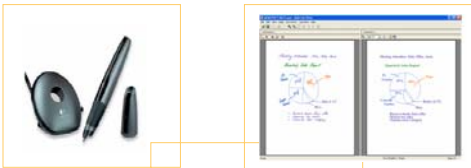


One Laptop per Child  
<http://laptop.media.mit.edu/>

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## Cheaper Handwriting Device



Logitech io<sup>2</sup> Pen  
[www.logitech.com](http://www.logitech.com)  
 \$199



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## Painting and Drawing



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## Drawing Tablet

- Wacom Graphire (\$99)
  - Wireless pen
  - Wireless mouse
  - USB
  - Painting/drawing software



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## Office Devices



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## Multifunction devices

### HP PSC 2610 (\$280)

- Print
- Scan
- Copy
- Fax
- Networkable
- Flash memory slots



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## Multifunction devices

### Cigarette Lighter and Cup Holder

- \$9.95
- Fits in drive bay
- [www.geeks.com](http://www.geeks.com)



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## Printing Pictures

- Dye-sublimation printers
- Four-pass color process
- Ribbon and paper
- 4"x6" and 8"x10"
- Olympus P-10/440



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## Printing Pictures

- Epson Stylus Photo R800
- 100-year ink life
- 8 cartridges (\$15@)
- \$399
- [www.epson.com](http://www.epson.com)



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## New laptop form factor

- OQO model 01+
  - 4.9 x 3.4 x .9 inches
  - 802.11b wireless
  - Bluetooth
  - 30 GB hard drive
  - 5" screen
  - 14 ounces
  - 1 GHz processor
  - \$1899
  - <http://www.oqo.com/>



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## New desktop form factor

- Personal Internet Communicator
  - 5.5 x 8.5 x 2.5 inches
  - 4 USB ports
  - VGA (1600x1200)
  - 10 GB hard drive
  - Headphone and mic jacks
  - Windows-powered
  - Includes software, keyboard, and mouse
  - \$299
  - <http://www.amd.com/>



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## New breed of Web cam



Logitech Orbit (\$129)  
<http://logitech.com/>



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## Transporting Technology



Scott eVest (\$200)  
<http://scottvest.com>



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## Transporting Technology



- Holds your PDA, and all these Accessories!**
- ✓ Folding Keyboard
  - ✓ PDA Camera
  - ✓ Cell Phone
  - ✓ Stylus
  - ✓ Adapter
  - ✓ Mouse
  - ✓ Magnetics™
  - ✓ PDA Headset
  - ✓ Spare Batteries
  - ✓ Credit Cards
  - ✓ Keys & Change
- Accessories not included

Road Warrior PDA Pack  
<http://officeonthegogo.com/> \$39

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## Transporting Technology



- ✓ Adapter tips
- ✓ Airline Adapter
- ✓ Automobile Adapter
- ✓ Business card holder
- ✓ Convenient Carrying Case
- ✓ Durable stitched seams
- ✓ Durable construction
- ✓ Mesh pocket
- ✓ Kickout fittings
- ✓ Non-slip shoulder pad
- ✓ Removable - spill-proof pouch
- ✓ Single Power Source
- ✓ Six-sided foam protection
- ✓ Specialty designed pockets
- ✓ Universal Notebook Power Adapter
- ✓ USB charging ports
- ✓ World-wide compatibility

APC Travel Power Cases  
<http://apc.com/>  
 \$99-129

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## Transporting Technology



Apple/Burton Amp Pack (\$199) <http://apple.com/>

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## Transporting Technology



Vera Bradley Villager (\$60)  
<http://verabradley.com/>

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## Cool Technology Ideas



The Power Strip Liberator (\$1.79)  
<http://cyberguys.com/>

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## Cool Technology Ideas

- Firewire Dino
  - [www.charismac.com/Products/firedino/](http://www.charismac.com/Products/firedino/)
  - Adds 4 Firewire ports (IEEE 1394)
  - \$70

**Disclaimers:**  
 Charismac claims no responsibility for broken personal or business related property should Firewire Dino go on a rampage. As always, a clean and fed Firewire Dino results in a happy Firewire Dino. Please keep small children away from Firewire Dino, just in case.



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## Cool Technology Ideas

- WiFi Finder
  - <http://www.kensington.com/html/3720.html>
  - Kensington
  - Helps you locate hot spots
  - \$29.95



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## Cool Technology Ideas



USB Cooling Fan \$9.49



USB Mouse w/fan \$24.95

[www.cyberguys.com](http://www.cyberguys.com)



USB Cup Warmer \$16.95

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## Cool Technology Ideas



LED Binary Watch \$70



USB Air Purifier \$29.95

[www.thinkgeek.com](http://www.thinkgeek.com)

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USB Ashtray \$34.95

## Cool Technology Ideas



USB Light-up  
 Holiday Tree \$12.95



Drumming USB Santa \$14.95

[www.x-tremegeek.com](http://www.x-tremegeek.com)

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## Cool Technology Ideas



USB Aquarium \$9.95



Light-up USB Snowman  
\$14.95

[www.x-tremegeek.com](http://www.x-tremegeek.com)

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## Cool Technology Ideas

- USB Lava Lamp
- \$10
- Comes in 3 colors
- Thinkgeek.com and Kohl's



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## Cool Technology Ideas



- e-Puppy
  - Reads text aloud
  - Includes a microphone
  - Includes a speaker
  - LED light for alerts
  - [www.software-blowouts.com/epeusbeco.html](http://www.software-blowouts.com/epeusbeco.html)
  - \$24.95

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## Cool Technology Ideas

### Cellular Jewelry

- Flash when cell phone rings
- Works up to 3' from phone
- \$20
- [cellularjewelry.com](http://cellularjewelry.com)



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## Thanko Products

- Pen/SD card reader
- \$99



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[www.audiocubes.com](http://www.audiocubes.com)

## Thanko Products

- USB Fan with 4-port USBHub
- \$45



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[www.audiocubes.com](http://www.audiocubes.com)

## Thanko Products

- USB Aqua Hub
- \$39



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[www.audiocubes.com](http://www.audiocubes.com)

## Thanko Products

- USB FlowerPot Speaker
- \$59



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[www.audiocubes.com](http://www.audiocubes.com)

## Thanko Products

- USB Nail Care Set
- \$59



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[www.audiocubes.com](http://www.audiocubes.com)

## Homemade USB Devices

### USB Barbie®



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## Homemade USB Devices

### USB Cufflinks



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## Homemade USB Devices

### USB Pez® Dispenser



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## Computer Gifts

www.computergear.com



\$24.99 for 4



\$24.99



\$19.99 for 8



\$34.99

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## Technology Time-Savers

www.thinkgeek.com



\$14.99



\$69.99

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## After-School Time Savers



Honeywell Kitchen  
Computer (1965)  
www.old-computers.com



SCREENFRIDGE

www.electrolux.com

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## Cookin' With Google

September 13, 2003

Cookin' With Google

Andy Hertzberg came up with the idea of searching Google to figure out what you're going to have for dinner and I turned it into a Google Hack, one of the most popular ones out there. Doesn't require an API key.

Custom Web Google

Give me a couple of ingredients:

Please tell me what kind of recipe you want:

Give me a couple of ingredients:

Please tell me what kind of recipe you want:



<http://www.researchbuzz.org/archives/001404.shtml>

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## Total cost of everything

- One tablet PC, one handheld, one iPod, one photo printer, and one hybrid phone
- Most of the other accessories
- \$5700.00



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## In 1987...

- \$5700 in 2006 dollars was worth about \$3000 in 1982
- You could buy...

IBM 5150  
64k of RAM  
Single-sided 160K 5.25"  
floppy drive  
No hard drive



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## Assessment Time!

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## ISTE NETS\*T National Educational Technology Standards (NETS)

1. Technology Operations and Concepts
  - Skills to stay abreast of emerging technologies
2. Planning and Designing Learning Experiences
  - Support the diverse needs of learners
3. Teaching, Learning, and the Curriculum
  - Enhance higher-order thinking skills
4. Assessment and Evaluation
  - Collect and analyze data
5. Productivity and Professional Practice
  - Use technology to enhance personal productivity
6. Social, Ethical, and Human Issues
  - Model and teach ethical practice in technology use

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([http://cnets.iste.org/teachers/t\\_stands.html](http://cnets.iste.org/teachers/t_stands.html))

## Technology Operations and Concepts



KATHY SCHROCK'S KAFFEEKLATSCH



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## Planning and Designing Learning Experiences



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## Teaching, Learning, and the Curriculum



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## Assessment and Evaluation



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## Productivity and Personal Practice



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## Social, Ethical, and Human Issues



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## The End

- Support Web site  
<http://kathyschrock.net/magic/>



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