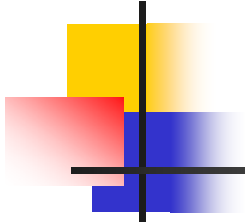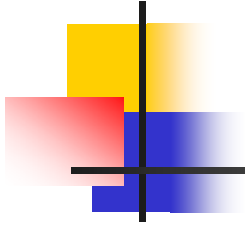# Instructional Technology

With

Jessica Boyle

"Digital Natives"

"Today's students - K through college - represent the first generations to grow up with technology. They have spent their entire lives surrounded by and using computers, videogames, digital music players, video cams, cell phones, and all the other toys and tools of the digital age. Computer games, email, the Internet, cell phones and instant messaging are integral parts of their lives"
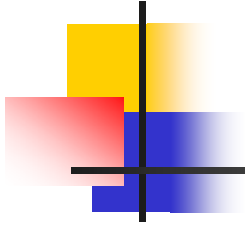
Instructional Technology

- Definition:
    - The use of technology and technological tools to aid in the learning process and improve student learning.
        - Differentiation of Instruction
        - Reinforcement of skills and concepts
        - Assessment of Learning
    - The teaching of technology as a skill with the goal of ensuring "Digital Natives" become "Literate Members of the Information Age".

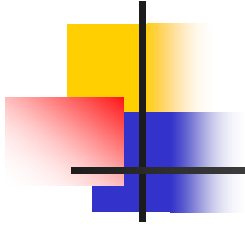# Instructional Technology Coordinator Position

- **Jessica Boyle**
  - Certified Elementary Teacher
  - Came from the World of Business (Technology)
  - Work under the guidance of the Office of Curriculum and Instruction

IT Coordinator Duties

"Digital Immigrants"

"As Digital Immigrants learn - like all immigrants, some better than others - to adapt to their environment, they always retain, to some degree, their "accent," that is, their foot in the past.   The "digital immigrant accent" can be seen in such things as turning to the Internet for information second rather than first, or in reading the manual for a program rather than assuming that the program itself will teach us to use it. Today's older folk were "socialized" differently from their kids, and are now in the process of learning a new language."

Digital Immigrants ctd…

"There are hundreds of examples of the digital immigrant accent. They include printing out your email (or having your secretary print it out for you - an even "thicker" accent); needing to print out a document written on the computer in order to edit it (rather than just editing on the screen); and bringing people physically into your office to see an interesting web site (rather than just sending them the URL). I'm sure you can think of one or two examples of your own without much effort. My own favorite example is the "Did you get my email?" phone call. Those of us who are Digital Immigrants can, and should, laugh at ourselves and our "accent".

IT Coordinator Duties

- Directly interact with teachers and administrators to maximize technological use
- Model technology lesson integration by means of working with students in grades K-12
- Work with Library Media Specialists and Computer Teaching Assistants to incorporate group instructional methodologies
- Conduct staff development by means of faculty meetings, staff development hours, and new teacher orientation
  - Sampling of Topics covered
    - Marco Polo NY (Through the Teacher Center)
    - SMART Board Use
    - Web Site Design
    - Microsoft Office Applications

Current District Technology

- Primary and Intermediate:
  - Internet access in all classrooms
  - At least 3 computers in every classroom
  - Computer Lab/Library Media Centers
  - Weekly Computer Lab time
  - Microsoft Office Suite
  - Age appropriate software
  - Interactive White Boards (SMART Boards) for teacher use (QUICK DEMO)

Current District Technology ctd...

- Middle and High School
  - Computer labs (Thin Client)
  - Computers on Wheels (COWS)
  - Laptop Carts
  - Wireless Access
  - Specific Technology Courses
    - Middle School – 7th grade Technology Course
    - High School – Business Course(s), Art Course(s), AutoCAD
  - Departmental SMART Boards
  - Laptop and Projector Check-Outs

What Does the Future Hold?

- 3 Year Tech Plan:
  - New Student Management System
  - Fiber Optic Network
  - Thin Client Solutions for Classroom Computers
  - More focus upon Instructional Aids
    - Additional SMART Boards
    - Video Conferencing
    - Digital Projectors
    - …