



**YORK SCHOOL**  
ideas for  
an information technologies curriculum

**Robotics**

- Intro to Mobile Robotics
- Introduction to Robotics

**Computer Literacy**

- Communications Best Practices
  - email, instant messaging, file sharing
  - etiquette, ethics, safety, ...
  - document management
- Computer Technologies and Applications for Art, Photography, and Graphic Design
  - Photoshop
  - Illustrator
  - Fireworks
  - Aperture
  - MIME file types
- Computer Technologies and Applications for Music and Audio / Visual Production
  - Final Cut Pro
  - Garageband
  - MIDI
  - SoundTrack Pro
- Creative Thinking Skills for Electronic Media
- Essential Software Applications Proficiency
  - MS Office
    - Word
    - PowerPoint
    - Excel
    - Access
    - Outlook
  - Operating Systems
    - Apple - Mac OS X
    - Microsoft - W2K, Vista, XP
    - Open Source - BSD, Linux
    - Sun - Solaris
  - Star Office, Open Office
    - word processor, spreadsheet, presentation, database
- Mixing it Up - Compatibility Issues Across Applications and Operating Systems
- Online Research Techniques
- Software Applications and the Art of Persuasion
  - CRM - Creative Campaign Design, Deployment and Management
- Web Design
  - Dreamweaver
  - HTML, CSS
  - javascript
  - Fireworks
  - Principles of Effective Web Design
  - Flash
  - Photoshop

**Skills**

- Applications Proficiency
- Content Re-purposing
- Copywriting
- Data Management
- Editing
- Planning, Analysis, and Design
- Problem Solving, Troubleshooting
- Programming
- Research
- Collaboration Teamwork, Team Leadership

**Other**

- Unified Modeling Language
- Product Management
- Project Management
- XML
- LDAP
- Patterns and Organizational Patterns
- Visualizing Data

**Applied IT**

- Tools and Technologies for Team Collaboration
- Socio-Political Issues of IT
- Overview of Computer Systems Applications
- Systems Planning and Analysis
- Practical Knowledge Management

**Computer Science**

- Basics of Network and Applications Security
- Relational Database Management Systems
  - Microsoft Access
  - MySQL
  - Principles of RDBMS Design
- Software and Applications Development
  - Programming or Scripting Languages
    - C / C++
    - C#
    - Java
    - PHP
    - Python
    - Ruby
    - Perl
    - Shell, various
  - UNIX tools
    - awk, sed, grep, vi, cut, join, split, ...
  - Software Requirements
- Systems and Network Administration

- blogs
- email
- instant messaging
- wikis
- file transfer
- podcasting