

# Integrating Technology into Your Curriculum

## What is technology integration?

- **Teachers Integrating Technology into Student Learning**
  - Students are using technology to enhance their learning. Students use technology such as computers and digital cameras as a part of the subject they are studying.
  - Students are mastering Technology Applications TEKS (grades K-8). Students are required to produce technology products on a regular basis.
- **Teachers Integrating Technology into their Instructional Practices**
  - A teacher is using technology as part of his or her instruction. Teachers use technology such as computer projectors, PowerPoint presentations, Web sites, United Streaming, and document cameras as part of their lessons. This increases student engagement in the lesson and models good technology use skills.

## No Child Left Behind (NCLB) Title II Part D

### *Enhancing Education through Technology Act of 2001*

#### **NCLB has three requirements for technology in schools:**

- Students will be technology literate by the end of the 8<sup>th</sup> grade
- Teachers will attend technology training in the effective integration of technology
- Classrooms will fully integrate technology into the curriculum by December 31, 2006

#### ***NCLB leaves the definitions of these requirements to the states.***

#### **The State of Texas defines these three requirements as:**

- Students must master the K-8 Technology Applications by the end of the 8<sup>th</sup> grade  
<http://www.tea.state.tx.us/technology/techapp/teks/res.htm>
- Teachers must strive to meet the SBEC Technology Applications Standards, I-V, which are based on the Technology Applications TEKS for grade 8  
<http://www.sbec.state.tx.us/SBECOnline/standtest/standards/techapp.pdf>
- Classrooms will fully integrate technology into the curriculum by December 31, 2006

## Teaching the Technology Applications TEKS

- **Classroom teachers are responsible for making sure that students master the Technology Applications TEKS at each grade level (K-8).**
- Subject area TEKS also have technology skills embedded.
- Grades 9-12 teachers should be reinforcing the technology skills that students learned in grades K-8 as well as teaching the technology skills embedded in their subject area TEKS.
- Your campus technology facilitator will inform you of the Technology Applications TEKS that are assigned by the state to your grade level.
- Your campus technology facilitator will also collaborate with you to assist with integrating the Technology Applications TEKS into your curriculum. They are your #1 go to person for technology integration! Please seek them out for ideas on improving student achievement by engaging students with technology!

## The Classroom Computer

Every GISD classroom has one computer, which is both a teacher computer and a student computer. Teachers should allow students to use the classroom computer when appropriate. Teachers should log off of the computer before allowing a student to use it. Students in grades 3-12 should log in using their username and password; students in grades K-2 should log in using the computer lab login.

## Integrating Technology Using a Projector

Every instructional classroom has an LCD projector which should be used on a regular basis to deliver and enhance instruction.

**Connecting a Projector to your Computer** – Please see *Set-Up and Use of LCD Projector with a Desktop Computer* instructions on the next page.

### Ideas for Integrating a Projector into your Instruction

- **Supplement or replace your traditional lecture**
  - Create a PowerPoint on the computer and use the projector to display it as a visual aide for instruction.
  - Project your notes and handouts on the screen or dry-erase board.
- **Introducing or reinforcing a concept**
  - Display a DEStreaming video clip. Use the video clip, which lasts just a few minutes, to engage your students in the day's topic
  - Project a Web site with an animation, video, or interactive simulation demonstrating the topic
  - Project a Web site with a drawing or text describing the topic
- **View live events that tie to your curriculum**
  - View a presidential press conference as it happens via CNN.com, FoxNews.com, MSNBC, or your favorite news website
  - View a Space Shuttle launch, mission, space walk, or landing via the NASA website. You can have mission control's perspective!
- **Class inquiry activity**
  - Use a search engine such as Google, Yahoo, or Yahoooligans to search the Web for answers to student questions or teacher-created questions. Project the search so the class can participate. Model or have the students tell you how to find the answer to your question by using the search engine to search for the topic. Model and use student input to determine if the search phrase was effective and if the Web sites found are useful.  
**IMPORTANT NOTE:** Before this lesson, practice searching so that you know what web sites the search engine will return. There is a chance that the brief explanations of each web page provided by the search engine may contain content not appropriate for your students. Also, consider creating questions that you know the answer to.
- **Recording class discussions**
  - During a class discussion, type and organize student responses in Word, Kidspiration, or Inspiration. Use the projector to display what you are recording.

### Ideas for Integrating a Projector into Student Learning

- **Inquiry, Research, or Activity Center**
  - Students use the classroom computer to search the K-12 Online Databases (Encyclopedia Britannica or EBSCO – see your librarian for details!) or the Web for answers, to do research, or to visit a Web site you provide them.
  - Turn on the projector so you can watch what students are doing on the computer while you move around the room.
- **Student Presentations**
  - Students share a product they created, such as a PowerPoint presentation or a Web site.
  - Students project a Web site that they use to explain something to the class or to justify an argument.

For more ideas, sign up for the staff development session *Integrating Projectors and Document Cameras into Instruction*, or visit the *Projectors & Document Cameras* page of the *Technology Curriculum Corner*:  
<http://www.georgetownisd.org/ccorner/technology/projectors.asp>