Impacting Instruction with Document Cameras and Projectors

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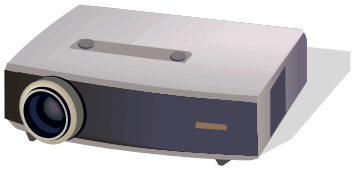
More ideas posted on the Georgetown ISD Technology Curriculum Corner:
http://www.georgetownisd.org/ccorner/technology/projectors.asp



Projector Ideas

General

- Resources that came with your textbook adoption
- Any website, especially interactive websites
  - Interactive Websites for Grades Pre-K - 12 http://jc-schools.net/tutorials/interactive.htm
  - ***Please Note:*** *preview websites in advance to verify that it is appropriate for your class*
- **Digital resources from your textbook adoption**
- **DEStreaming (formerly United Streaming)** - http://streaming.discoveryeducation.com/
- **BrainPop** - www.brainpop.com *(for campuses that subscribe)*
- **K-12 Online Databases** for researching/looking up a topic – free to all Texas public schools!
  - **Talk to your librarian about this if you do not know about these resources. General information is here:** http://web.esc20.net/k12databases
  - **Encycolpedia Britannica** http://school.eb.com
  - **EBSCO** http://search.ebscohost.com
- Search the Internet as a class (using Google or another search engine)
  - ***Please Note:*** *try the search yourself **in advance** to verify that your keywords provide the expected results*
- **Flash Card Machine** - www.flashcardmachine.com
- Project a handout (Word document) on dry erase board and fill in the blanks on the board
- Give students notes using PowerPoint or Word
- Model the use of a computer program or a particular skill in a computer program
- Ask a student to demonstrate a particular skill in a computer program
- If you have Inspiration or Kidspiration, create Thinking Maps (graphic organizers) as a class
- **Thinkfinity** - http://www.thinkfinity.org/

Science

- **NASA TV - Live Events and Mission Coverage** - www.nasa.gov/multimedia/nasatv/index.html
- **NASA Simulations** - http://www.knowitall.org/nasa/simulations/science.html
- **National Hurricane Center** - www.nhc.noaa.gov
- **The Computational Laboratory** – Simulations: disease and population studies - http://tangent.krellinst.org
- **Discovery Channel Interactives** - http://dsc.discovery.com/games/games.html
- **Online Math Applications: Science** - http://library.thinkquest.org/4116/Science/science.htm
- **Microscope Simulation** - http://nobelprize.org/educational_games/physics/microscopes/index.html
- **Virtual Courseware Online Simulations** - http://nemo.sciencecourseware.org/
- **Galileo's Experiments -** http://www.pbs.org/wgbh/nova/galileo/
- **National Computational Science Institute** - http://www.shodor.org/cserd/
- **Science Animations, Movies, and Interactive Tutorials** - http://nhscience.lonestar.edu/biol/animatio.htm
- **Enzoology –** Enzoology is a kids' science show created by and hosted by eight year old Enzo Monfre – http://www.enzoology.com
- **Cells Alive -** http://www.cellsalive.com/

Projector Ideas, continued

Social Studies

- **Website resources on GISD Social Studies Curriculum Corner -** http://www.georgetownisd.org/ccorner/socstudies/general.asp
- **PBS Lewis and Clark Into the Unknown** - www.pbs.org/lewisandclark/into/index.html
- **Current Events**
  - **Any news website**
  - **CNN Student News –** http://www.cnn.com/studentnews
  - **PBS NewsHour Extra for Grades 7 – 12** – http://www.pbs.org/newshour/extra/
  - **Channel One** – http://www.channelone.com
- **Political Cartoons** - http://cagle.msnbc.com/politicalcartoons/
- **Atlas of U.S. Presidential Elections** - http://uselectionatlas.org/
- **Online Math Applications: Investing -** http://library.thinkquest.org/4116/Investing/investin.htm
- **Virtual tour of a museum:** The Lower East Side Tenement Museum, New York - http://www.tenement.org/Virtual_Tour/index_virtual.html

Language Arts

- **Interactive Exercises** – http://www.smic.be/smic5022/onlineexercises.htm
- **AAA Spell** - www.aaaspell.com
- **Wacky Web Tales** - Mad Libs to practice parts of speech - www.eduplace.com/tales
- **Look up unfamiliar words while reading together -** www.dictionary.com or www.merriam-webster.com
- **Find appropriate synonyms** - www.thesaurus.com or www.merriam-webster.com
- **Visuwords Online Graphical Dictionary** - http://www.visuwords.com/
- **Between the Lions** Resources for Early Readers - http://pbskids.org/lions/
- **Starfall** Resources for Early Readers **-** http://www.starfall.com/

Math

- **AAA Math** - www.aaamath.com
- **National Library of Virtual Manipulatives** - http://nlvm.usu.edu/en/nav/vlibrary.html
  - *Please Note: Use these virtual manipulatives online. Do not download anything.*
- **Interactive Online Math Lessons** – Lessons with teacher-supplied plans - http://enlvm.usu.edu/ma/nav/bb_school.jsp?sid=emready&coid=all
- **Interactive Mathematics** - http://www.cut-the-knot.org/index.shtml
- **Math Forum Technology Problem of the Week** - http://mathforum.org/workshops/tpow.html
- **NCTM e-Examples** - http://standards.nctm.org/document/eexamples/index.htm
- **Online Math Applications: Science** - http://library.thinkquest.org/4116/Science/science.htm

Fine Arts

- **Virtual tour of a museum:** Louvre - http://www.louvre.fr/llv/musee/visite_virtuelle.jsp
- **Timeline of Art History** - http://www.metmuseum.org/toah/splash.htm
- **Color Theory at ColorJack** - http://www.colorjack.com/
- **Online Math Applications: Music** - http://library.thinkquest.org/4116/Music/music.htm
- **The Kennedy Center Perfect Pitch** - http://www.artsedge.kennedy-center.org/perfectpitch/

Technology Applications

- **OnGuard Online Cybersafety Games -** http://www.onguardonline.gov/games/overview.aspx
- **Microsoft Office Demos** - http://office.microsoft.com/en-us/help/FX100485311033.aspx

Document Camera Ideas

General

- Show pages from books for discussion
- Enlarge text for students with vision impairments
- Zoom in on a picture or object to focus on characteristics (such as clothes pioneers wore or animal body parts)
- Display student work examples, give immediate feedback, and have students describe their thought processes
- Grade and discuss homework
- Let students come to document camera and "be the teacher"
- Student Show and Tell
- Model a process
- Demonstrate a new process or procedure that would otherwise be difficult to see in a large group
    - *Examples: folding an origami crane, demonstrating how to use a digital camera*
- Demonstrate assignments and procedures for English Language Learners
- Show an object, picture, and word at the same time to help English Language Learners acquire vocabulary
- Model note taking
- Display visuals to enhance lecture or discussion
- Display graphs and charts
- Show 3-dimensional objects
- Place a timer underneath document camera for doing timed activities
- Display flash cards - math facts, vocabulary
- Categorizing - sorting words or objects
- Graphic organizers - Thinking Maps, KWL chart
- TAKS practice
- Model filling out a form
- Project a hard-copy handout on a dry-erase board

Science

- Science demonstrations - demonstrate chemical reactions, live experiments
- Teach use of measurement tools and use of the thermometer
- Manipulate colored pieces of paper to demonstrate balancing chemical equations
- Science dissections - demonstrate dissection to class, lead students as they dissect their own specimen.
    - *Examples: frog dissection, pick apart an owl pellet*
- Observe live specimens - zoom in on fish scales, salmon eggs. Use the Freeze button.
- Use the document camera's microscope attachment (purchased separately) with a microscope to display anything you can see under a microscope
- Model writing an effective lab conclusion by showing a model example written by a student
- Use the Mirror function to demonstrate symmetry or reflection

Social Studies

- Maps
- Demonstrate scale on maps
- Display pictures of historical events
- Current events - newspaper and magazine articles, political cartoons
- Artifacts

Language Arts

- Share and edit student writing
- Teacher models writing for students
- Model the physical process of writing - demonstrating hand movements
- Shared reading experience - Make every book a big book
- Correct sentence grammar
- Creative writing - add a line
- Critique student work for Six-Trait Writing
- Create mini topic-specific word walls

Math

- Demonstrate manipulatives - calculator, ruler, compass, protractor, counting coins, and other tools
- Zoom in on units of measurement
- Graph lines on graph paper
- Demonstrate how to count the edges, vertices, and faces of a solid figure
- Work TAKS problems
- Manipulate colored pieces of paper to demonstrate solving equations

Fine Arts

- Model drawing techniques
- Display prints of professional artwork
- Display sheet music