



Module 2: Integrating the TA TEKs into the Curriculum

Classroom Connect
www.classroom.com

Agenda

- ❖ Examine what technology integration really means
- ❖ Discover the first steps needed to make change in the Information Age
- ❖ Overcoming challenges
- ❖ Discuss project-based learning
- ❖ Examine strategies for integration
- ❖ Review tools and resources that support the integration of TA TEKS



Technology Integration?

TechToon



After months of hard work, Mr. Wilkins saw the first sign of technology integration.



Integration:

Finding your place on the continuum...

- ❖ Where do you/your organization stand?
 - ❖ Texas STaR Chart
 - ❖ http://www.tea.state.tx.us/technology/etac/campus_txstar/txstarfull.pdf



Seven Factors for Success

1. Technology Initiatives start with instructional goals
2. Technology must be linked to curricular goals and frameworks.
3. Technology and the assessment system must be compatible.
4. Teachers and technology need to work together.
5. Teachers require ongoing pedagogical and technical support.
6. Community and parent involvement enhances the likelihood of success.
7. Business plays and important role in technology and school reform.

❖ From Elizabeth Byrom, Ed.D. www.serve.org//litreview.html



Why Change

“...Major institutions, including government, industry and finance, are seeking ways to restructure that will increase their flexibility and effectiveness in this climate of change. Education is often pointed to as the key sector of our society that can prepare us for this new world and ensure our success...”

-National School Board Foundation



Why Change?

“Learning for the 21st Century requires new skills, new tools, and new knowledge. Students today must learn different ways to work with different tools, different ways to work with information, and different ways to work with people.Finally, precisely because of ongoing change, Texas students must learn to learn, and develop skills and habits that will serve them for a lifetime.”

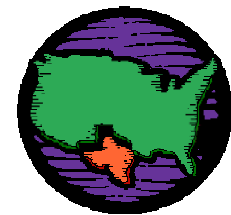
-Texas STaR Chart Summary



Overcoming the Challenges...

❖ Preparing Tomorrow's Teachers To Use Technology

❖ [PT3 Stories and Strategies](#)





What can I do as a teacher?

PBL+MM

All of the following resources can be used to satisfy TA TEKS requirements.

Project Based Learning With Multimedia

- ❖ Project-based learning with multimedia (PBL+MM) is a method of teaching and learning in which students acquire new knowledge and skills in the course of designing, planning, and producing a multimedia product.



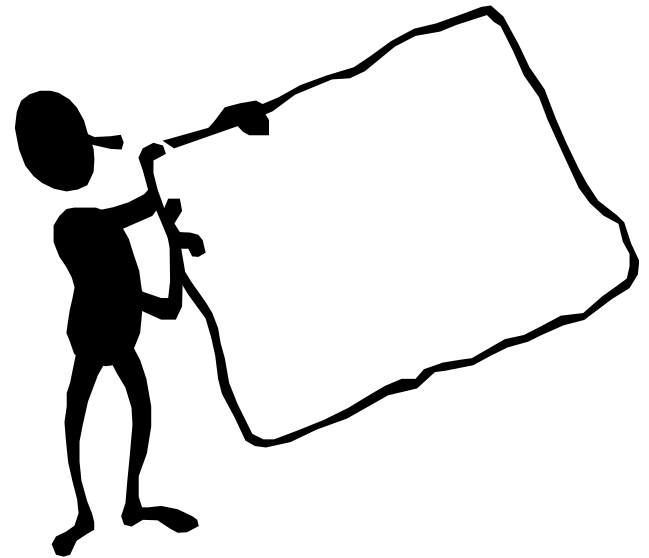
Why Project Based Learning?

- ❖ Anchored in core curriculum; multidisciplinary
- ❖ Meets required TA TEKS objectives
- ❖ Involves students in sustained effort over time
- ❖ Involves student decision-making
- ❖ Collaborative
- ❖ Has a clear real-world connection
- ❖ Systematic assessment: both along the way and end product
- ❖ Takes advantage of multimedia as a communication tool





What are the options?



Choices, Choices, Choices

❖ “Plug & play” online projects

❖ Advantages

- ❖ Less prep time
- ❖ Getting an understanding of pbl

❖ Disadvantages

- ❖ May not dovetail to your curriculum needs



Plug & Play Projects

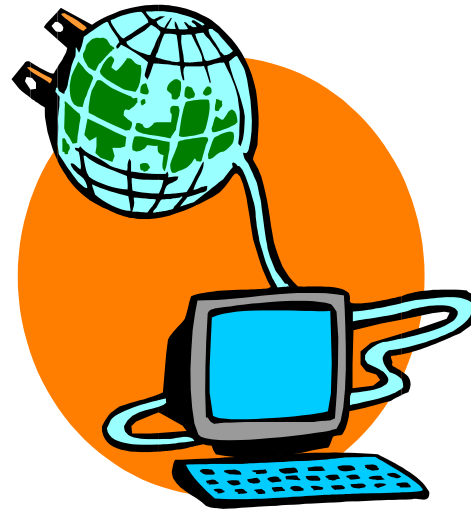
Foundations

Communication

Solving Problems

Acquiring Information

- ❖ Communication
- ❖ Information Collection
- ❖ Online Field Trips
- ❖ Problem-solving
- ❖ Adventure Learning
- ❖ Multimedia Projects
- ❖ Webquests



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Communication

❖ ePals (electronic pen pals)

❖ www.epals.com



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Information collection

- ❖ data collected from multiple sites
- ❖ data analyzed by students
- ❖ data collection via:
 - ❖ conducting surveys and election polls
 - ❖ collecting weather statistics, comparative prices, sports statistics

❖ Journey North

- ❖ <http://www.learner.org/jnorth/>

❖ Project FeederWatch

- ❖ <http://birds.cornell.edu/PFW/>



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Online field trips

- ❖ Simple: sharing info about their community
- ❖ Complex: monitoring an expedition to reach the North Pole
 - ❖ Examples: MUSEUMS, GALLERIES, EDUCATIONAL INSTITUTIONS, ETC.
 - ❖ Nova Online Virtual Fieldtrips
 - ❖ <http://www.pbs.org/novaonline>
 - ❖ WebWorldWonders
 - ❖ <http://webworldwonders.firn.edu/>



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Problem-solving activities

- ❖ similar problems presented to two or more classes
- ❖ take turns presenting problems
- ❖ teams of students use telecommunications technology to plan strategies, share results, and solve problems collaboratively
- ❖ Chips A Tally
 - ❖ <http://www.angelfire.com/nj3/tally/>
- ❖ Little 9, Integration 0
 - ❖ http://www.kn.pacbell.com/wired/BHM/little_rock/



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Adventure Learning

❖ An online expedition that offers an interactive, media-rich fieldtrip to a particular location

❖ The Quest (ColumbusQuest)

❖ <http://quest.classroom.com/>

❖ Goals.com

• <http://www.goals.com>



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Multimedia Projects

- ❖ Use of multimedia tools
- ❖ Incorporates higher-level thinking skills
- ❖ ThinkQuest
 - ❖ A Day That Will Live in Infamy
 - ❖ <http://library.thinkquest.org/J0112601/>



Types of “P&P” Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ WebQuests

- ❖ Inquiry-based learning activity
- ❖ Explore, collect, and interact with online info
 - ❖ Bernie Dodge’s WebQuests:
 - ❖ <http://edweb.sdsu.edu/webquest/webquest.html>



One Stop Shopping: Project Sites

- ❖ Six Paths to China

 - ❖ <http://www.kn.pacbell.com/wired/China/>

- ❖ Blue Web'n

 - ❖ <http://www.kn.pacbell.com/wired/bluewebn/index.html>

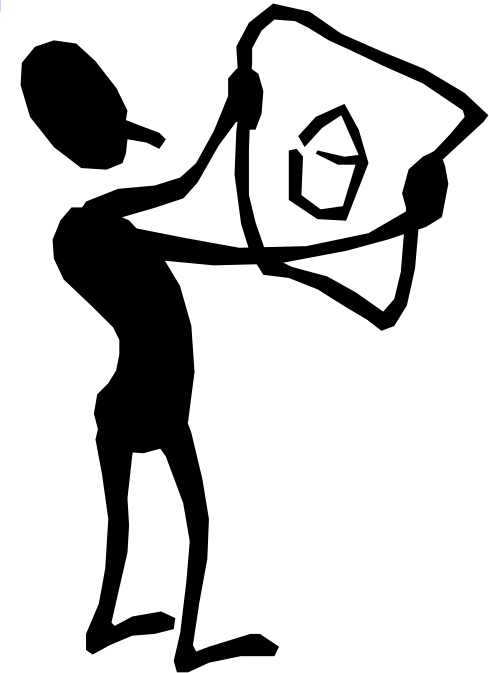
- ❖ Museum of Modern Art Online Projects

 - ❖ <http://www.moma.org/docs/onlineprojects/>





Creating your own...



Choices, Choices, Choices

❖ Create your own online project

❖ Advantages

- ❖ Customized learning

❖ Disadvantages

- ❖ Labor intensive
 - ❖ Content
 - ❖ Tools



Online Project Development

Foundations

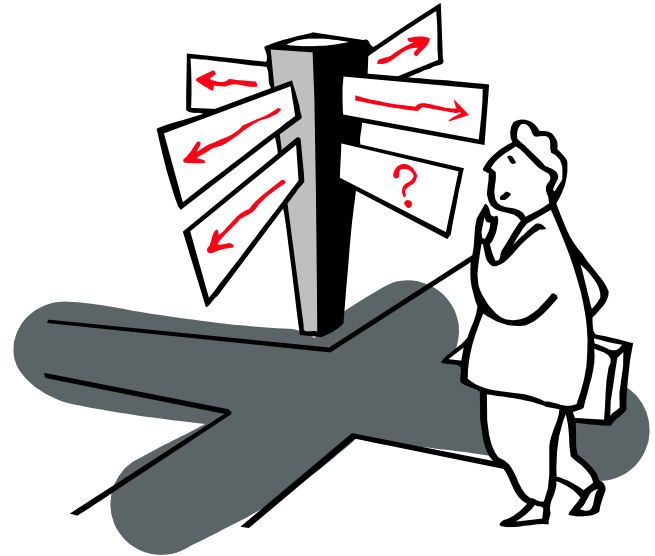
Communication

Solving Problems

Acquiring Information

❖ Types of projects

- ❖ Hotlists
- ❖ ScrapBook
- ❖ WebQuests



Online Activities/Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Hotlists

- A **hotlist** is a list of Internet resources that are related to a certain theme, topic, subject, and/or project.

❖ **Advantages**

- Provides appropriate resources
- Requires no searching
- Allows more “time on task”



Online Activities/Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ Scrapbooks

❖ A scrapbook is a collection of Internet sites organized around specific categories such as, photographs, maps, stories, facts, quotations, sound clips, videos, virtual reality tours, etc.

❖ Advantages

- ❖ Contain multimedia resources that can be used in other formats
 - ❖ Newsletters
 - ❖ Web pages
 - ❖ Electronic presentations



Online Activities/Projects

Foundations

Communication

Solving Problems

Acquiring Information

❖ WebQuests

❖ <http://edweb.sdsu.edu/webquest/webquest.html>

❖ What is a WebQuest?

❖ A WebQuest is defined, by Bernie Dodge at San Diego State University, as "an inquiry-oriented activity in which some or all of the information that learners interact with comes from resources on the Internet."



Online Activities/Projects

❖ WebQuests

- A WebQuest is an inquiry-based project that includes Internet resources

❖ Advantages

- Delivers inquiry-based learning
- Promote effective use of the Internet
- Promotes higher level thinking skills
- Provides real world experiences
- Promotes cooperative learning



WebQuests

- ❖ Mississippi Department of Education
 - ❖ Camp Connect
 - ❖ Three-summer camp dedicated to WebQuests
 - ❖ WebQuest projects
 - ❖ <http://teacherexchange.mde.k12.ms.us>
- ❖ Red Clay Consolidated School District
 - ❖ Camp Connect: WebQuest projects
 - ❖ <http://redclay4me.tripod.com>
- ❖ Create your own webquest here with a free webquest template.
 - ❖ www.teacherweb.com





How do you tie these projects to TA TEKS?

Best Practices, Grades K-2

- ❖ WebQuest: [The Very Lost & Hungry Caterpillar](#)
- ❖ Grade: K-2
- ❖ Curriculum areas: Science and language arts
- ❖ Sample TA TEKS Standards:
 - ❖ Foundations
 - ❖ Information acquisition
 - ❖ Solving problems
 - ❖ Communication



Best Practices, Grades 3-5

❖ WebQuest: [Texas Dinosaurs](#)



❖ Grade: 3-5

❖ Curriculum areas: Social studies and language arts

❖ Sample TA TEKS Standards:

- ❖ **Foundations:** The student demonstrates knowledge and appropriate use of hardware components, software programs, and their connections.
- ❖ **Information acquisition:** The student uses a variety of strategies to acquire information from electronic resources, with appropriate supervision.
- ❖ **Solving problems:** The student uses appropriate computer-based productivity tools to create and modify solutions to problems.
- ❖ **Communication:** The student delivers the product electronically in a variety of media, with appropriate supervision.



Best Practices, Grades 6-8

❖ WebQuest: [Monet?](#)

❖ Grade: 6-8

❖ Curriculum areas: Art and language arts

❖ Sample TA TEKS Standards:

❖ Foundations

❖ Information acquisition

❖ Solving problems

❖ Communication



Online Project Development

Considerations:

1. What is the process behind project development?
2. Where do I find the necessary tools and resources?



Eight Steps to a Successful Online Project

- ❖ **Step 1:** Think about your curriculum standards and goals.
- ❖ **Step 2:** Go online to see how other teachers are structuring their projects.
- ❖ **Step 3:** Once you have become familiar with a variety of online projects, revisit your curriculum and develop the type, topic, and content for your project.
 - ❖ Make sure that the topic appeals to your students.
- ❖ **Step 4:** Design your project with specific goals, tasks, and outcomes. Create a starter project that is doable.

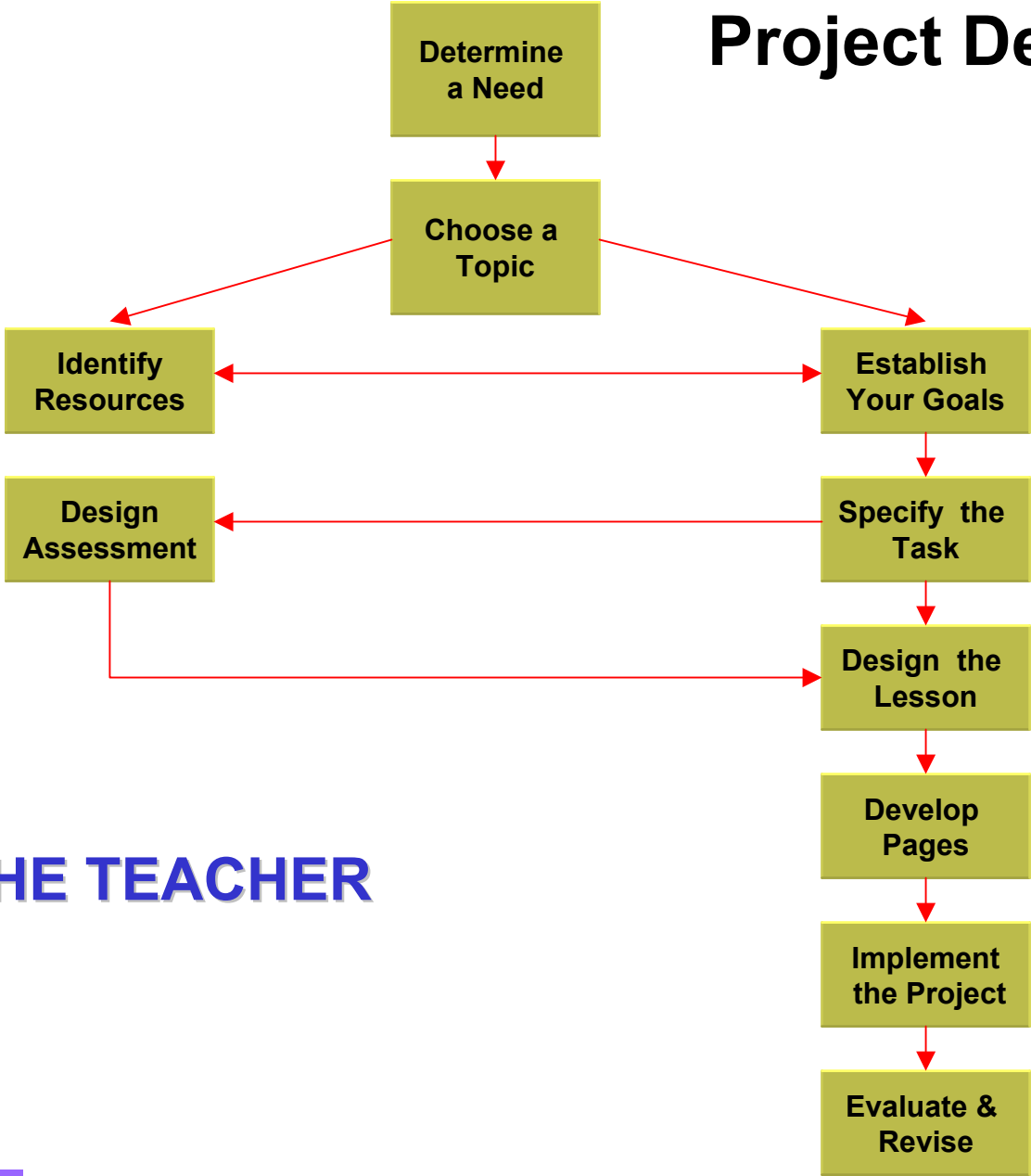


Eight Steps to a Successful Online Project

- ❖ **Step 5:** Develop an evaluation tool that best supports the project.
 - ❖ Ex. Rubric- WebQuest
- ❖ **Step 6:** Set specific beginning and ending dates for your project.
- ❖ **Step 7:** Periodically, review the process of the project. Answer any questions and address any concerns.
- ❖ **Step 8:** At the project's conclusion, share the results of the project with all participants. Publish results if applicable.



Project Development



THE TEACHER



Logistical Issues

❖ Challenges

- ❖ What tool(s) does one use to create an online project?
- ❖ How does one find the content and/or resources?
- ❖ How does one post an online project?
- ❖ What tool(s) do *students* use to complete the project?
- ❖ How will students share data?





Tools of the Trade!



Tools Of The Trade

- ❖ Planning Tools
- ❖ Searching Tools
- ❖ Resource Tools
- ❖ Research Tools
- ❖ Authoring Tools
- ❖ Productivity Tools
- ❖ Assessment Tools
- ❖ Communication Tools
- ❖ Sharing Tools



Sample Tools

❖ Creating Online Projects

- ❖ Teacher's Guide for Building Integrated Technology Projects

- ❖ www.essdack.org/building/

❖ RubiStar

- ❖ Online, electronic rubrics tool

- ❖ <http://rubistar.4teachers.org/>

❖ Project-Based Checklists

- ❖ Online, electronic checklist tool

- ❖ www.4teachers.org/projectbased/



Online Training

❖ Actden.com

- ❖ Microsoft Applications
- ❖ Online tutorials for students and teachers
 - ❖ www.actden.com

❖ Internet4Classrooms

- ❖ Online Tutorials
 - ❖ www.internet4classrooms.com/on-line.htm

❖ OnlineClass Presents

- ❖ K-12 inquiry-based teaching units
 - ❖ 6-10 weeks interactive learning units
 - ❖ 2-4 hour lesson plans based on Internet resources
 - ❖ <http://www.onlineclass.com/default.htm>





How Do You Integrate TA TEKS?



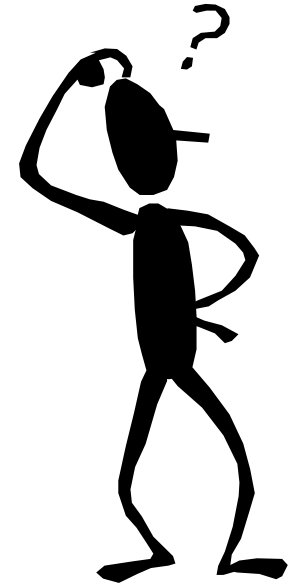
The Formula

**Your Curriculum
TA TEKS**

+ PBL

Integration

- Choose **1** curriculum objective that you teach.
- Choose **1** TA TEK
- Choose **1** PBL source that you learned about today...

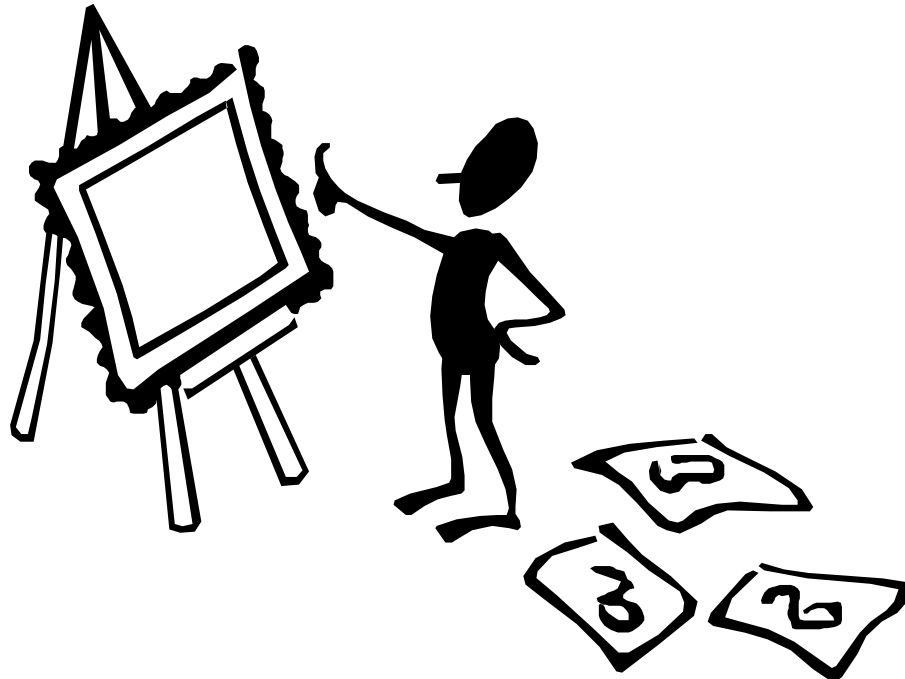


Your Challenge



Make 1 new lesson plan for next year.

You can use technology to teach your curriculum!



Questions?



For More Info:

Learning Specialist's Name

Jdoe@classroom.com

Cartoon courtesy of Ladd Skelly

<http://tehtoon.tripod.com>

