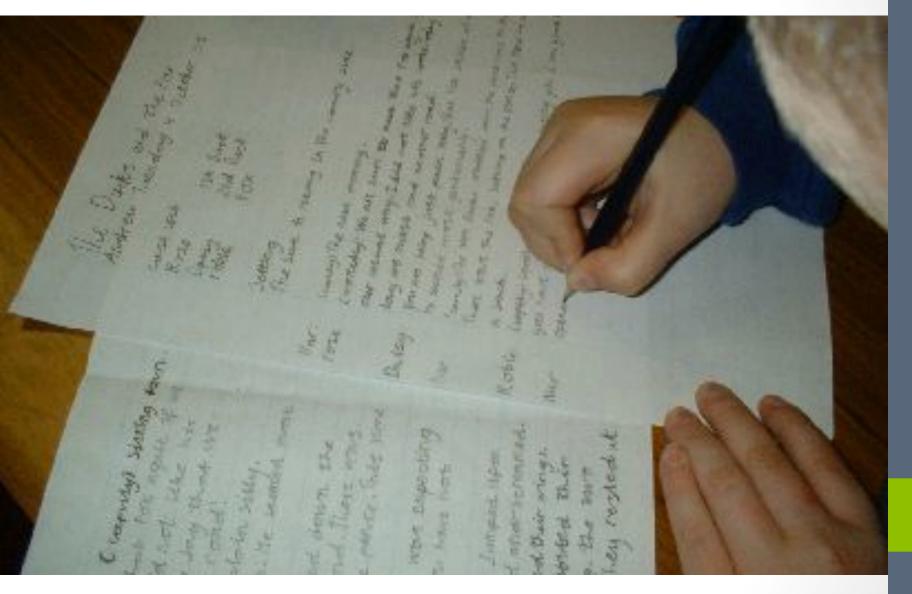
Project-Based Learning for the 21st Century

Gail Lovely Gail@GailLovely.com Learn how to use project-based learning to help your students develop essential 21st century skills, including communication, time management, selfassessment, and leadership. In this interactive, hands-on session, Gail introduces project-based ideas in which your role is that of coach, facilitator, and co-learner. You'll leave with numerous concrete ideas for implementing project-based learning in your classroom.

Think back...







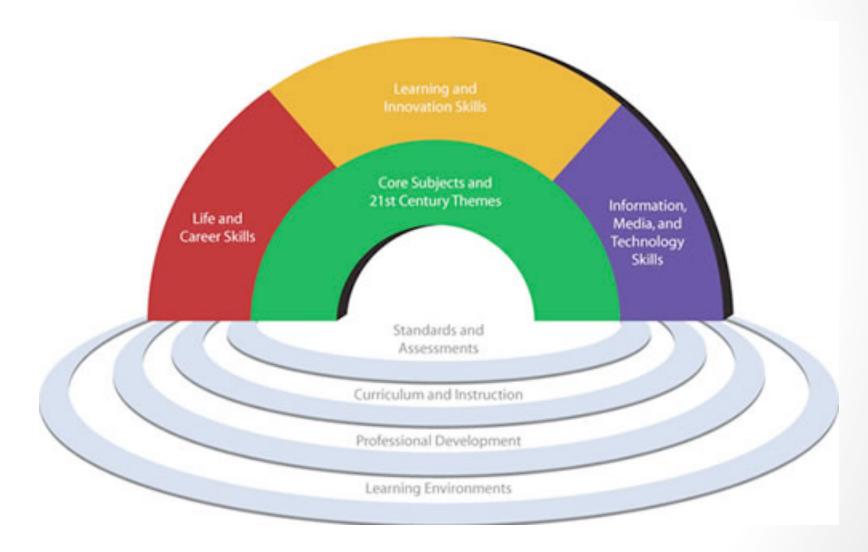


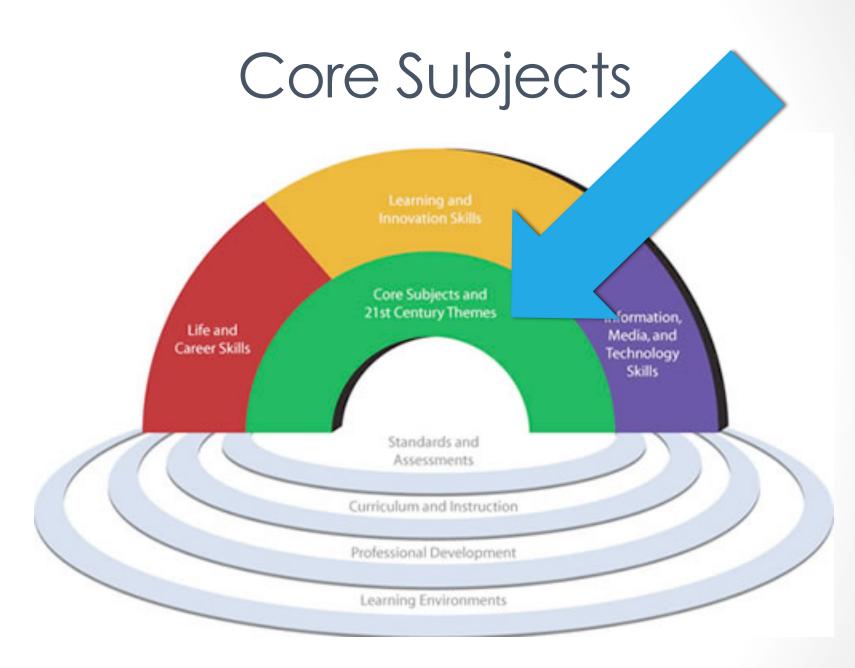
What IS PBL?



It's messy!

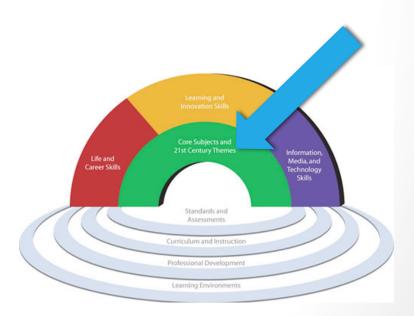
21st Century Skills

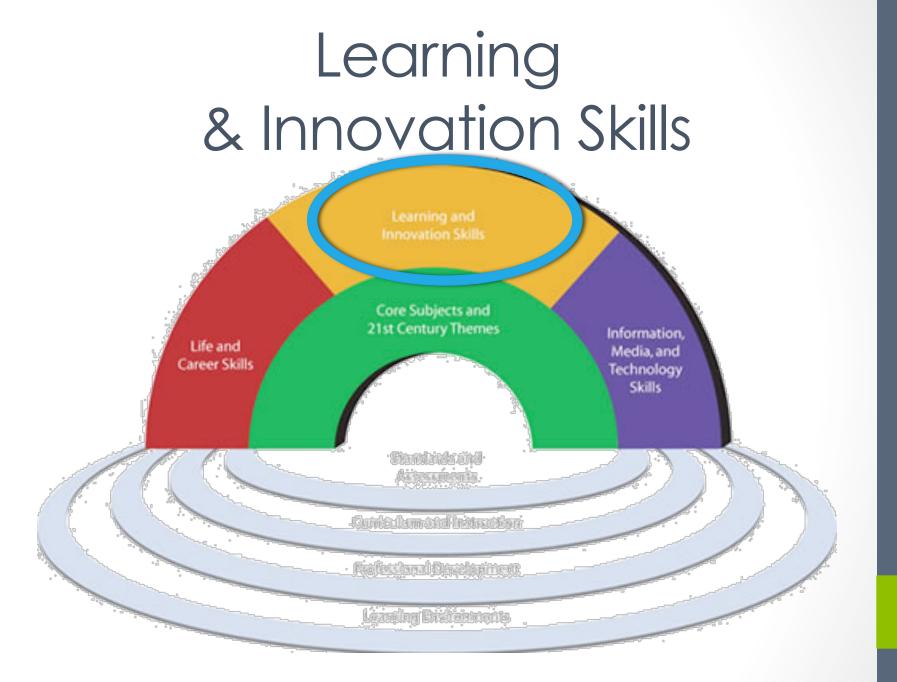




The Core Subjects & 21st Century Themes

- The "Traditional" 3 R's
 - Global Awareness
 - Financial, Economic, Business and Entrepreneurial Literacy
 - Civic Literacy
 - Health Literacy
 - Environmental Literacy

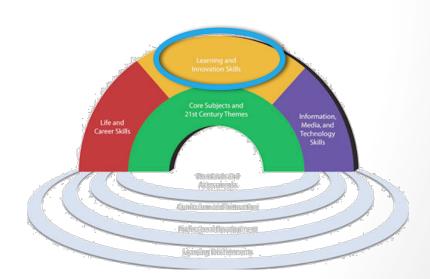




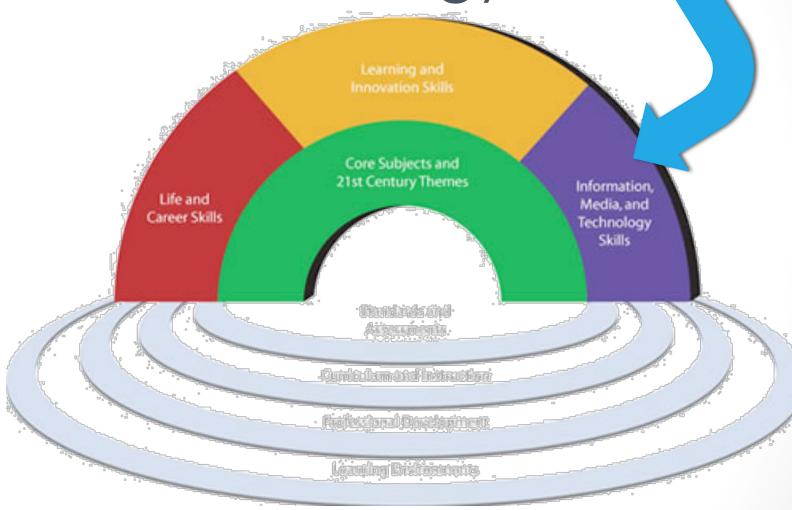
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Learning & Innovation Skills

- Critical Thinking
- Communication
- Collaboration
- Creativity

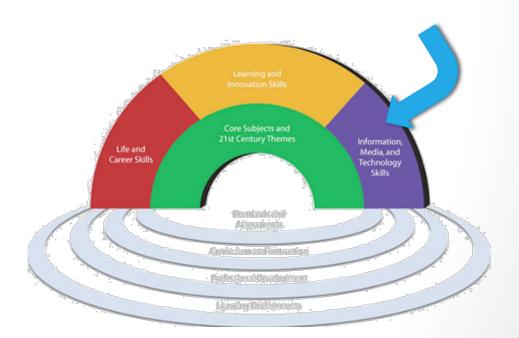


Information, Media, & Technology Skills

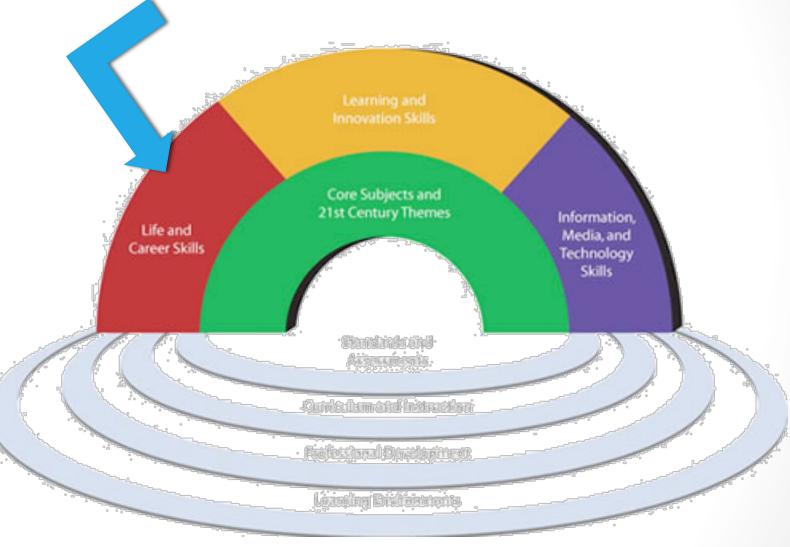


Information, Media, & Technology Skills

- Functional skills
- Critical thinking skills
 - (Related to information, media and technology)

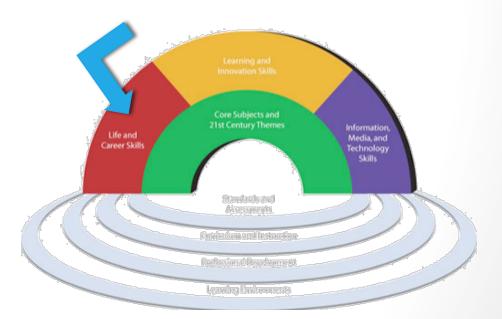


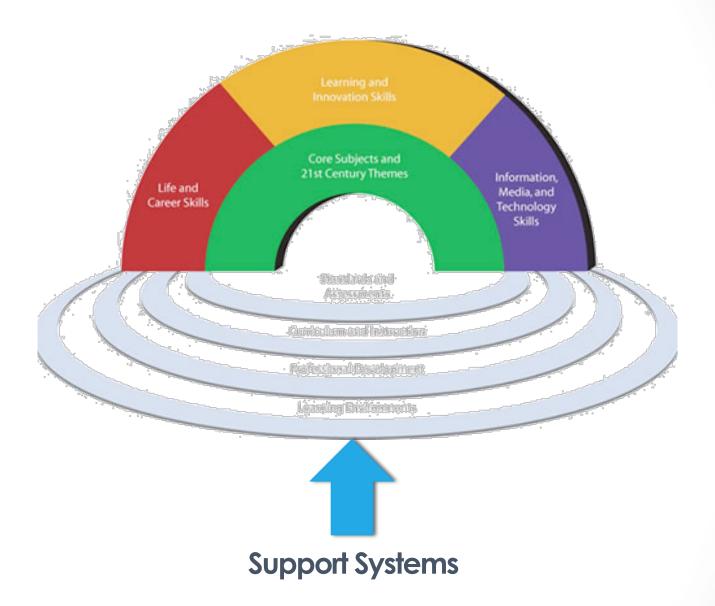
Life and Career Skills



Life and Career Skills

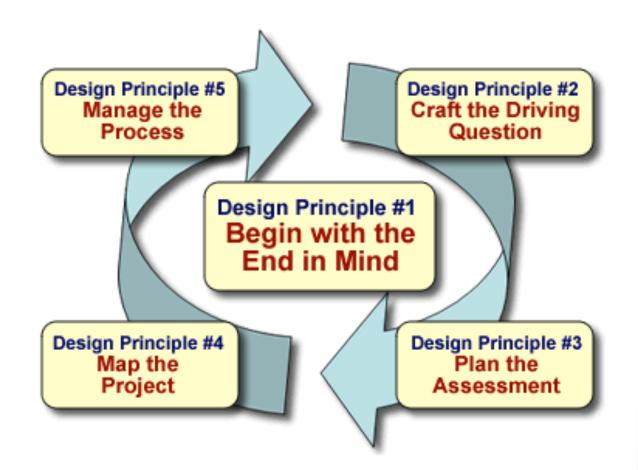
- NOT job training
- Skills for learning, relearning, independence and problem solving





Project-Based Learning Process

http://pbl-online.org/pathway2.html



Project-Based Learning Process

(simplified) Simplified Process Description:

- 1. Determine topic (question, problem, or curriculum focus)
- 2. Decide who will participate
- 3. Decide when you will do the project
- 4. Determine tools for the project & publishing the results
- 5. Find or decide where to find resources
- 6. Determine how success will be measured
- 7. START!

Management Hints and Myths



http://www.edutopia.org/ blog/20-tips-pbl-projectbased-learning-educatorsandrew-miller

http://www.edutopia.org/ blog/debunking-five-pblmyths-john-larmer



Lowered "risks"

READY-MADE PROJECTS

Projects by Jen

http://www.projectsbyjen.com/calendar.htm





Creative Projects for the PreK - Sixth Grade Classroom

Iditarod – Electronic Project

http://surfaquarium.com/elditarod/index.htm



Monster Project

http://www.monsterexchange.org/

ORIGINAL

"Mental Robot "

His name is Mental Robot. He has a triangular head, a banana-shaped mouth, and triangular ears. His head, his mouth, his ears, and his eyes are pink. Mental Robot has a male body and he has four fingers on each hand. He has a belt with a circle in the middle and he has red arms. He is wearing a blue shirt and a green belt. His arms have lots of scales on them. He has three spikes on each foot, his legs are human legs and his tail has five spikes on the club. His foot and tail are red.

REDRAWN

Flat Stanley

http://www.flatstanley.com/

(also an app on iTunes)



http://theglobalclassroomproject.wordpress.com/category/global-classroom/classroom-stories/flat-stanley-project/

Global Schoolnet

http://www.globalschoolnet.org/gsh/pr/index.cfm

INTERNET PROJECTS REGISTRY

This is the original clearinghouse for collaborative

PROTECT PROTECT PROTECT PROTECT	projects from across the globe - projects hosted by the Global SchoolNet Foundation, other reputable organizations, and outstanding partner projects conducted by teachers worldwide! Whether you choose to join an existing project or announce one of your own, GSN's Projects Registry promises to save you time!
Browse new projectSearch for project	
Related Resources Join or Browse Hilites Subscribe to our Hilites mailing list to receive these projects announcements in your email as they are posted.	 Browse Current Projects top There are 5 future projects that will begin in the coming weeks. There are 26 current projects in progress; 20 of them are still accepting registrations. There are 2582 archived projects that have been completed.
Visit our OCL Center:	Browse future/current projects: 5 future projects

iEarn

http://media.iearn.org/projects

M=ARN	Collaboration Centre	HELP LOGIN REGISTER
PROJECTS	HOME PROJECTS PEOPLE GALLERY FORUMS	Select Language 🔻
	PROJECTS	
FIND A PROJECT	iEARN projects are designed and facilitated by educators and students worldwide, and result "products." Below are four examples use the search block to the left to view all of the cur	-
By Title By Keyword By Subject ‡ By Age Level ‡ By Language ‡	Students write about and interact on environmental issues facing their communities during the year. Youth coordinate an annual event in April, where youth of the world	nding Solutions to inger rticipants research and cuss the root causes of nger and poverty in the rld and take meaningful cions to help create a more at and sustainable world.
Search View All Projects RESOURCES For more information about getting started in iEARN projects <u>Click here</u> .	Students research the recipes of typical food dishes in their countries as well as the origin, and the legends and stories behind them. Project activities could include research,	ws of Life: Virtues udents write about the rules, eals, and principles that they lue most in life. The essays scribe the rules, ideals, and nciples by which they live, d explain the sources of their ws of life

Gail@GailLovely.com

We encourage all iEARN teachers and students to participate in existing projects before initiating a project of their own. <u>Click here</u> to download the compete 2011-2012 iEARN Project Book (pdf). If you are interested in submitting a new project, email <u>projects@us.iearn.org</u>.

The Global Classroom Project

http://theglobalclassroomproject.wordpress.com/



ePals Projects

http://www.epals.com/projects/info.aspx?

DivID=index

ePals Projects				
Project	Торіс	Essential Questions	Overview	Community
<section-header>Holidays and Festivals Around the WorldImage: Image and the the the the the the the the the the</section-header>	People and Culture	 Why do people celebrate? What special traditions and rituals surround holidays and festivals? What holidays and festivals are important parts of your culture? What holidays and festivals are important in other cultures? What do celebrations around the world have in common? What is a symbol? How are symbols used in celebrations and holidays? 	How are special days celebrated throughout the world? Every culture has its own special traditions and reasons for celebrating and in this project, students will learn how holidays and festivals are celebrated all over the globe. Students will explore celebrations, traditions and symbols related to a holiday or festival from their home country and then investigate those from another part of the world. In a culminating activity, students will share their information and create a symbolic representation of their researched holiday from across the globe.	Connect with Classrooms Student Forums Feedback for ePais
Digital Storytelling	Culture and Literacy	 What is digital storytelling? What are the elements of a good story? Why do people tell stories? How is my personal story the same or different from others? 	In this unit, students will learn about the age-old practice of storytelling and use 21st century tools to create their own digital story. Students will explore digital storytelling as a way to tell a story, promote cross-cultural understanding and build meaningful connections with others. Students will participate in an email exchange to discuss the process. They will 1) develop a story topic 2) write their story 3) create or find appropriate images to support their story and 4) share their story and reflect on their work.	Connect with Classrooms Student Forums Feedback for ePals

Gail@GailLovely.com

Project Search

http://www.bie.org/project search

PTOJECT SEATCH KESUITS 20 results found in "Math, Elementary".

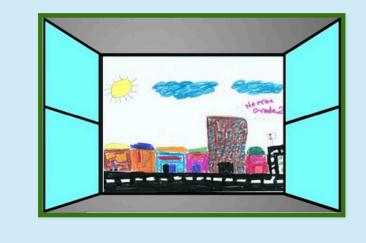
Page 1 of 1 pages

Refine your search: All Sources	Math (145)	Elementary (20) 🔽 🕻	30
PROJECT	SUBJECT(S)	SUMMARY	COMMON CORE STANDARDS
A Gardener's Dilemma West Virginia DOE Beginner	Math	Communities set aside plots of land for local citizens to establish small gardens. Students will design a plan for a family garden plot.	PRIMARY: 2.G.2, 3.MD.5, 3.MD.6, 3.MD.7 SECONDARY: 2.G.3, 3.MD.8, 4.MD.3
Connecting Math to Our Lives iEARN Beginner	 English Language Arts Math 	Students learn how math is connected to occupations by interviewing people in their community.	PRIMARY: 4.OA.1, 4.OA.2, 4.OA.3, 4.W.1 SECONDARY: 5.RI.5, 4.RI.7
Courtyard Re-Design Beginner P	Arts Math Science	Students from Schenk Elementary School present their finished designs to a group of school architects, planners, & designers. The video also demonstrates teacher planning.	PRIMARY: G.MG.3, 7.G.1 SECONDARY: G.MG.3, 3.G.2, 3.G.1
Custom Cup Coasters West Virginia DOE Beginner	Math	Students will create a custom coaster design for a client and pitch the idea to the Design Department Manager of a local firm.	PRIMARY: G.GMD.3, G.MG.3, 8.G.9, 6.G.4 SECONDARY: 7.G.6, 8.EE.8
Elementary Projects from Worms to Wall Street Beginner	Math Science	Newsome Park Elementary students work on a variety of research projects based on their interests.	PRIMARY: 1.MD.4, 2.MD.10, 3.MD.3, 4.MD.4

Some Past Projects

- <u>http://classroomwindows.blogspot.com/</u>
- <u>http://lunchboxproject.wikispaces.com/</u>
- <u>http://thebigshoeproject.creativeblogs.net/</u>

Outside My Classroom Windows: Beirut, Lebanon





Examples (ideas)

- http://www.plymouth.k12.in.us/1st-grade-pbl.html
- <u>http://rooseveltblog.ipage.com/wordpress/1st-grade/</u>
- <u>http://kathycassidy.com/category/pbl-2/</u>
- <u>http://edt674pbl.wikispaces.com/PBL+K-2</u>
- <u>http://www.intel.com/content/www/us/en/</u> <u>education/k12/project-design/unit-plans/grade-</u> <u>index.html#1</u>

Teachers Looking for Collaborators

Also on Twitter, Facebook, SIG, or Curriculum Specific groups...





TOOLS FOR PBL

Checklists

http://pblchecklist.4teachers.org/index.shtml



Project Based Learning

Checklists to support Project Based Learning and evaluation



A project based learning method is a comprehensive approach to instruction. Your students participate in projects and practice an interdisciplinary array of skills from math, language arts, fine arts, geography, science, and technology.

"The collaborative nature of the investigation enhances all of these valuable experiences ... as well as promotes a greater appreciation for social responsibility (Scott, 1994)."

Building Motivation Using Multiple Intelligences

PBL Checklists

To help you start using PBL, we've created age-appropriate, customizable project checklists for written reports, multimedia projects, oral presentations, and science projects. The use of these checklists keeps students on track and allows them to take responsibility for their own learning through peer- and self-evaluation.

PBL Project Checklists in English PBL Project Checklists en Español

We now have customizable rubrics for multimedia projects, work skills, experiments, oral projects, and many more -- all available at RubiStar!

PBL Checklists

Powered by 4Teachers.org 4Teacher Tools

If you have questions, check out the FAQs.

-

writing K-1 2-4 5-8 9-12

science K-4 5-8 9-12

oral presentation 2-4 5-8 9-12

multimedia 2-4 5-8 9-12

Completing class projects can be fun for your students, especially if they know exactly what is needed. Creating guidelines can be time-consuming though, so we've made a way for you to do it in no time! To make a project checklist for your students, first choose the grade level for the type of project you want your students to do. You can choose from writing, presentation, multimedia, or science projects.

Checklists and MORE

http://www.bie.org/tools/freebies

Very litems in your cart: 0	Home Contact Us Site Map Sign In Sign Up Forgot Password?	Search Q					
BIE	PROJECT BASED LEARNING FOR THE 21 ST CENTURY	INSTITUTE FOR EDUCATION					
ABOUT BIE VIDEO	OS TOOLS RESEARCH SERVICES COMMUN	ITY BLOG STORE					
FreeBIEs	Home » Tools » FreeBIEs						
Planning FormsStudent Handouts	FreeBIEs						
 Rubrics 							
Articles	BIE has created free materials - "FreeBIEs" - such as planning forms, student handouts, rubrics, and articles for						
Project Search	educators to download and use to design, assess, and manage projects.						
PBL Do-It-Yourself							
Project Planner							
Online Resources	A Main Course Not Dessert						
Project Libraries	The purpose in this article is twofold: 1) distinguish "main course" Project Based Learning (PBL) from the short duration and more						
PBL Tutorials							
Innovative Technology							
PBL Collaboratives	》圖 Project Overview The Project Overview form helps you plan your project - and share it with others - by summarizing its key more						
Model Schools							
 Model Networks 							
	الله المحافظة المح	om the Entry Event to the <mark>. more</mark>					

🔑 🗐 Teaching and Learning Guide

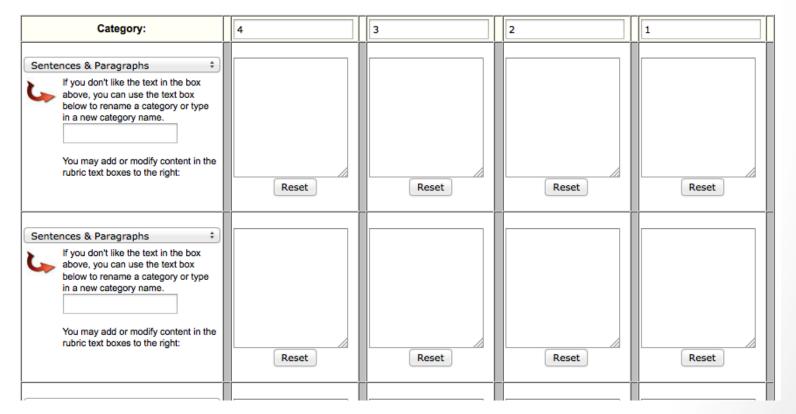
The Project Teaching and Learning Guide helps you plan how you will scaffold the knowledge and skills students need in... more...

Rubric Maker: Rubistar

http://rubistar.4teachers.org/

Creating and Editing Your Rubric

Here are some quick steps to help you create your rubric. hide/show



Shared Documents

- <u>https://docs.google.com</u>
- <u>http://titanpad.com</u>
- http://stixy.com

S Public Pad	Pad Options	₽ Impor	rt/Export 🛛 🛱 Saved revisions 🖵 Time Slider
BIUS ∷ EE Ø 50			<pre>< enter your name ></pre>
¹ What do we need to plan for in our project?			Invite other users and they will show up here. Share this pad January 17, 2012

Wikis and Websites

http://wikispaces.com http://Yola.com

* home

Mrs. Cassidy's Grade 1/2 Dinosaur Wiki

We are learning about dinosaurs. Do you know something about dinosaurs that you could add to our wiki to help us learn?



Velociraptor

('swift thief', 'swift plunderer' or 'swift bird of prey')

The velociraptor was a small dinosaur!! It ate meat. The fossils were found in Central Asia. They hunted in packs. It was 2 feet tall, 6 feet in length and 30 pounds in weight. It had more killing power than almost any other dinosaur of its weight. They were very intelligent. Velociraptor had approximately 80 conical, curved teeth, with long, flattened snout. Its teeth measured about 2.5 centimeter long. Its head was approximately 18 centimeters long. Its neck was S-shaped. This dinosaur had long, slender legs with four-toed clawed feet. Its arms had three clawed fingers.

Velociraptor was known to have existed during the late cretaceous period, approximately 80 to 85 million years ago. It was believed to have inhabited warm, arid environments, almost desert-like with rivers or streams.

The Velociraptor was between 5 to 6 feet long, and about 2.5 to 3 feet tall. It

weighed around 15 to 40 pounds (weights of dinosaurs are very hard to estimate). Physical Description:

The Velociraptor had an s-shaped neck, two arms that

had claws with three fingers on each hand, and long thin legs with claws that

had four toes on each foot. It's mouth had sharp, curved teeth and it had a

really flat long mouth and nose, and a long stiff tail.



It has a long neck and a long tail and it has five toes on each foot. It has a long neck. Diplodocus are quadrupeds meaning they stand on all four legs. The dinosaur walked on four legs.

Diplodocus was one of the largest dinosaurs ever discovered.

It was the longest land animal, but not the heaviest. It was a sauropod, a

"lizard-hipped" dinosaur. Diplodocus carnegii was named after industrialist and

🍃 Edit 🔗 1 🥥 0 🕀 105

Timers and Calendars etc...

• Apps – Timr, Toddler Timer

Calendars

- Printable
 - Use your Office tool templates
- Posters
 - Use Office
 - Use paper and paint?
- Group Pickers etc...



Scaffolded Research

 <u>http://www.davidson.k12.nc.us/education/</u> <u>components/scrapbook/default.php?</u> <u>sectiondetailid=24136&sc_id=1168360267</u>

First grade PBL and Unit topics

North Carolina Animals

Red Wolf / Wild Turkey / Bobcat / Honey Bee / Box Turtle /

Red Wolf

http://www.nhptv.org/natureworks/redwolf.htm

http://www.worldalmanacforkids.com/W_AKI-ViewArticle.aspx?pin=wwwak-178&article_id=67&chapter_id=1&chapter_title=Animals&article_title=Wolf

Wild Turkey

http://www.nhptv.org/natureworks/wildturkey.htm

http://www.switcheroozoo.com/profiles/wildturkey.htm

http://www.sheppardsoftware.com/content/animals/animals/birds/turkey.htm

http://www.saskschools.ca/~gregory/thanks/wildtky.html



OUR PROJECT!

http://thedivineedge.wordpress.com/ 2013/01/09/random-acts-of-kindness/

Random Acts of Kindness Week

- February 11-15
- 1. What acts of kindness might we (first graders) be able to do?
- 2. Related activities which are curriculum-rich.
- 3. Make a plan... how will you and your students know they were successful?

Some related resources

- <u>http://ayearofmanyfirsts.blogspot.com/2012/12/</u> random-acts-of-kindness-free-packet.html
- <u>http://www.randomactsofkindness.org/</u>
- <u>http://www.foundthemarbles.com/2012/02/acts-of-kindness-for-kids/</u>
- <u>http://kindertastic.blogspot.com/2011/12/light-em-up-random-act-of-kindness-for.html</u>



Leaders in PBL



PBL Go-To Leaders Online

http://www.edutopia.org/project-based-learning http://pbl-online.org/

PBL Specific Tools http://www.bie.org/

http://www.edutopia.org/blog/project-basedlearning-elementary-classroom-john-larmer

Blogs by PBL Experts

http://biepbl.blogspot.com/

http://educationaltechnologyguy.blogspot.com/ search/label/PBL http://www.edutopia.org/going.global.rurgl

http://www.edutopia.org/going-global-ruralwashington-students-connect-with-world

http://www.edutopia.org/blog/real-world-projectsnews-events-suzie-boss

Research and Examples

http://www.edutopia.org/project-based-learningstudent-motivation

http://www.wested.org/pblnet/ exemplary_projects.html

http://edupln.ning.com/group/pbl

http://www.classroom20.com/

OWNERSHIP is key.

Although you give the assignment, the students are in charge the rest of the way.

- Technique
- Structure
- Audience
- Tools
- Media

CREATIVITY is the another major part of the PBL and is closely linked with **OWNERSHIP**.

Allowing the students to create gives them a bigger sense of **OWNERSHIP**.

Another part of the PBL is the **COLLABORATION**. Students working with each other trying to decide the best plan of attack, the best next step, the best way to share with their audience. They **OWN** the process and product as a group.

Depending on how you set up your project, **CRITICAL THINKING**, should also be an important part of PBL. PBL is a great way to get kids thinking critically about purpose, problems, audience and process as well as content.

REFLECTION, is absolutely critical and should happen on an ongoing basis. Without **REFLECTION** much of what is learned is lost. Part of the **COLLABORATION** is about opportunities for **REFLECTION**.

John Dewey said "We don't learn from experience, we learn from reflecting on experience."

Project Based Learning has to be **FUN**! It seems obvious, but I have seen many projects that are very tedious. They have kids go through the motions and leave very little room for **FUN** or **CREATIVITY**. The **FUN** comes from the freedom students feel. Working with their friends (**COLLABORATION**), taking charge of their learning (**OWNERSHIP**), solving real problems (**CRITICAL THINKING**) and allowing students to create (**CREATIVITY**) all lead to the students learning in a **FUN** environment.

What will you do next?

