Project-Based Learning for the 21st Century

Gail Lovely
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- Learn how to use project-based learning to **help your students develop essential 21st century skills**, including communication, time management, self-assessment, 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.

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Think back…

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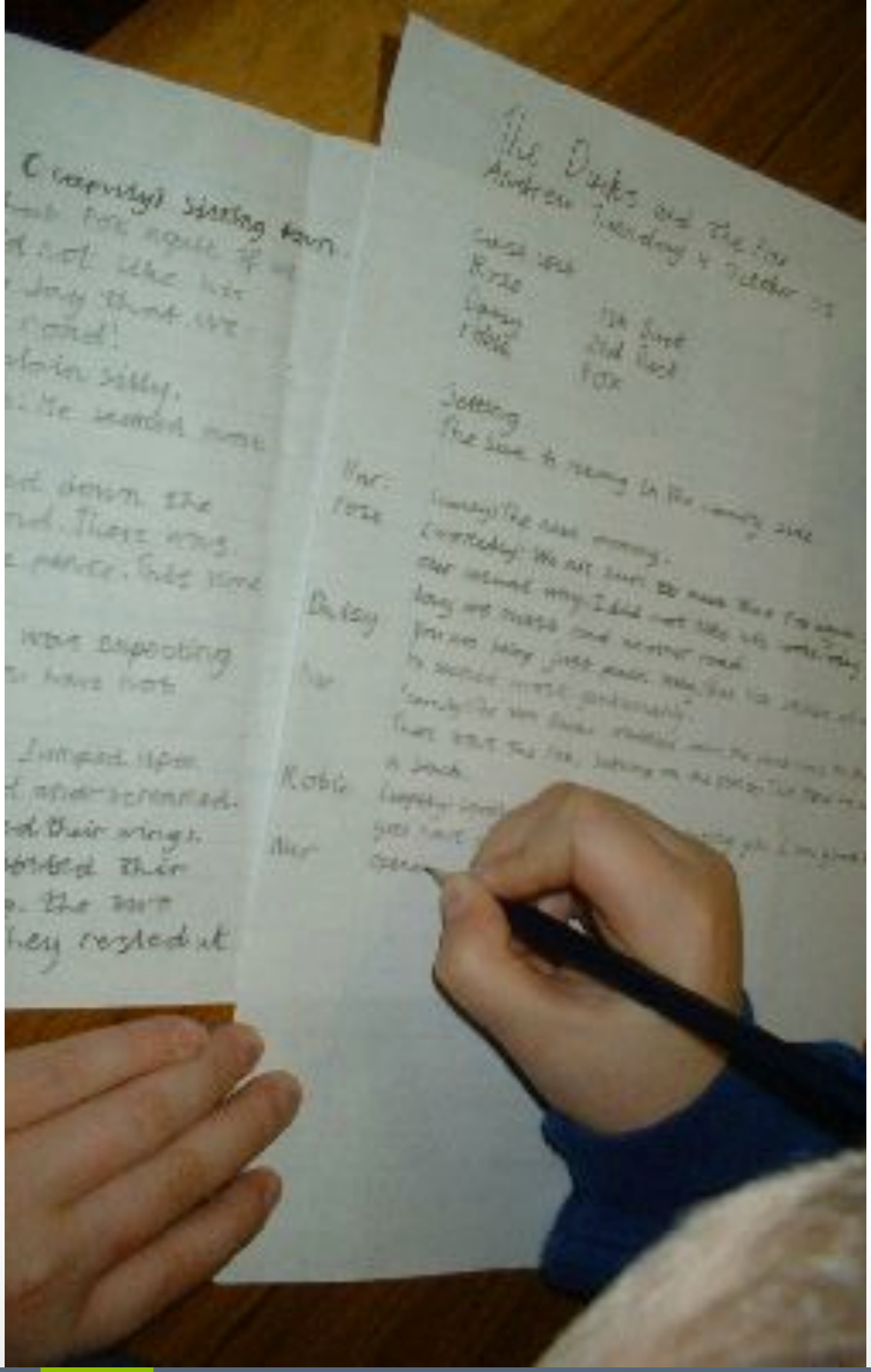

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What IS PBL?

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It's messy!

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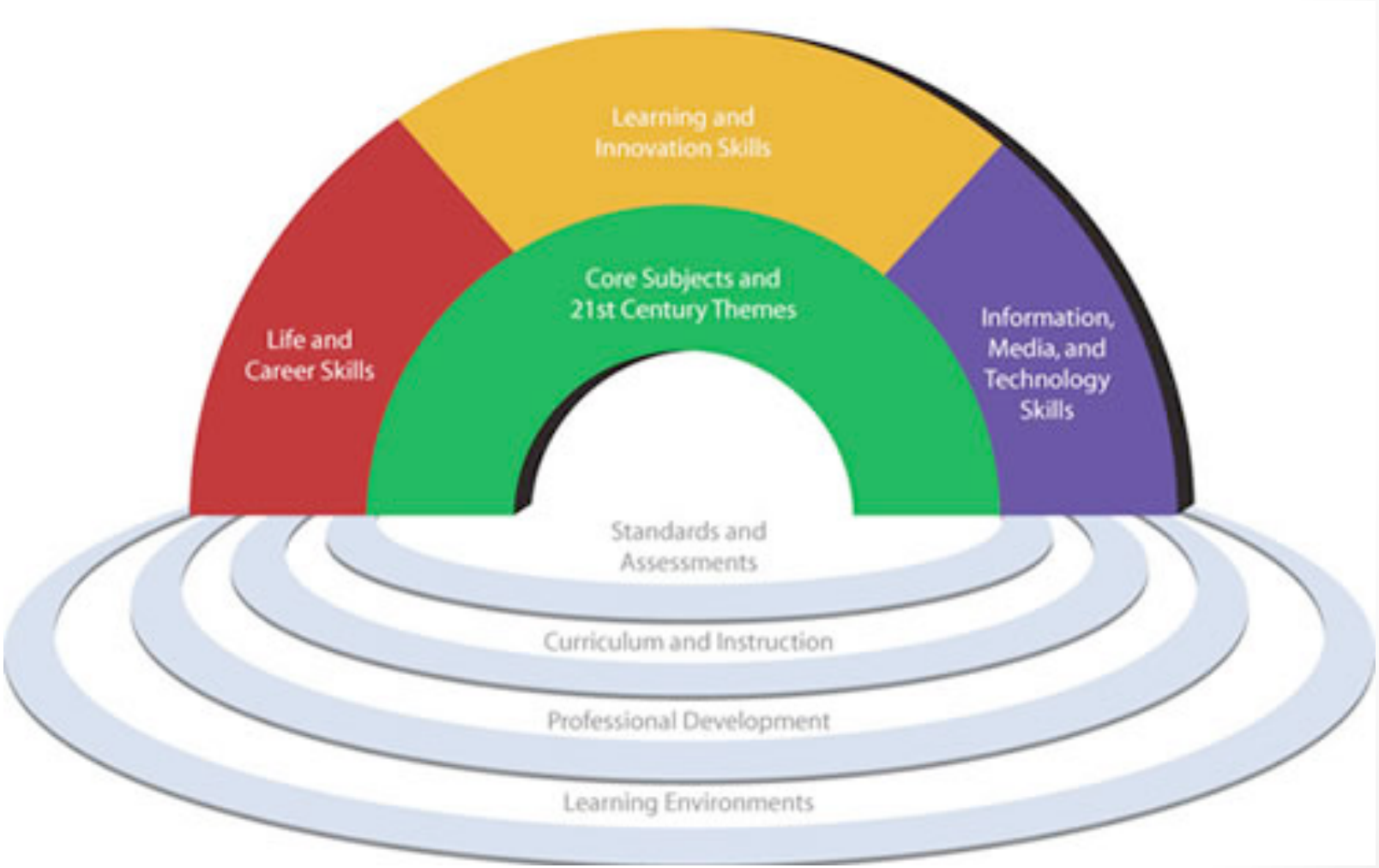
21st Century Skills



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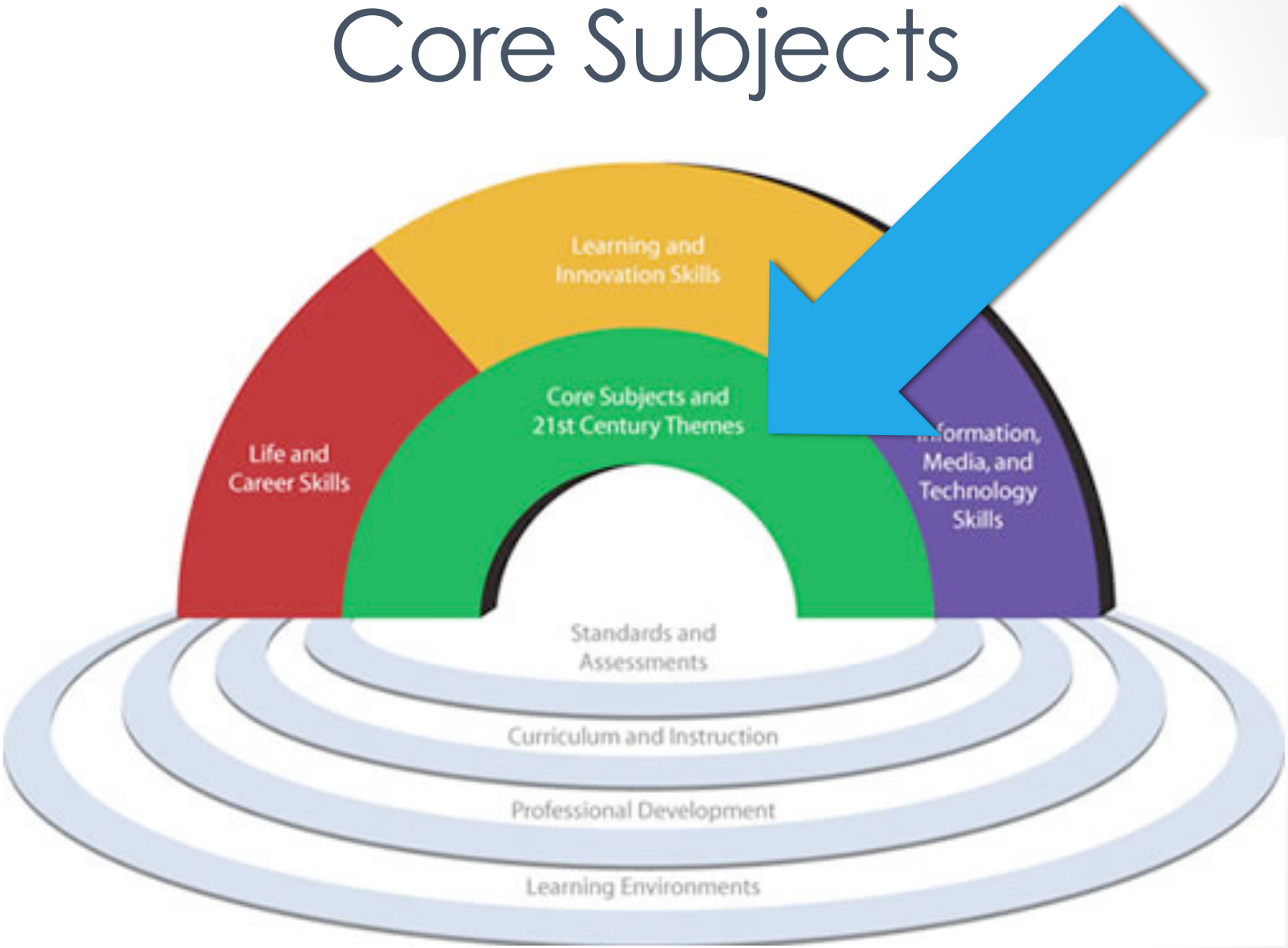
Core Subjects



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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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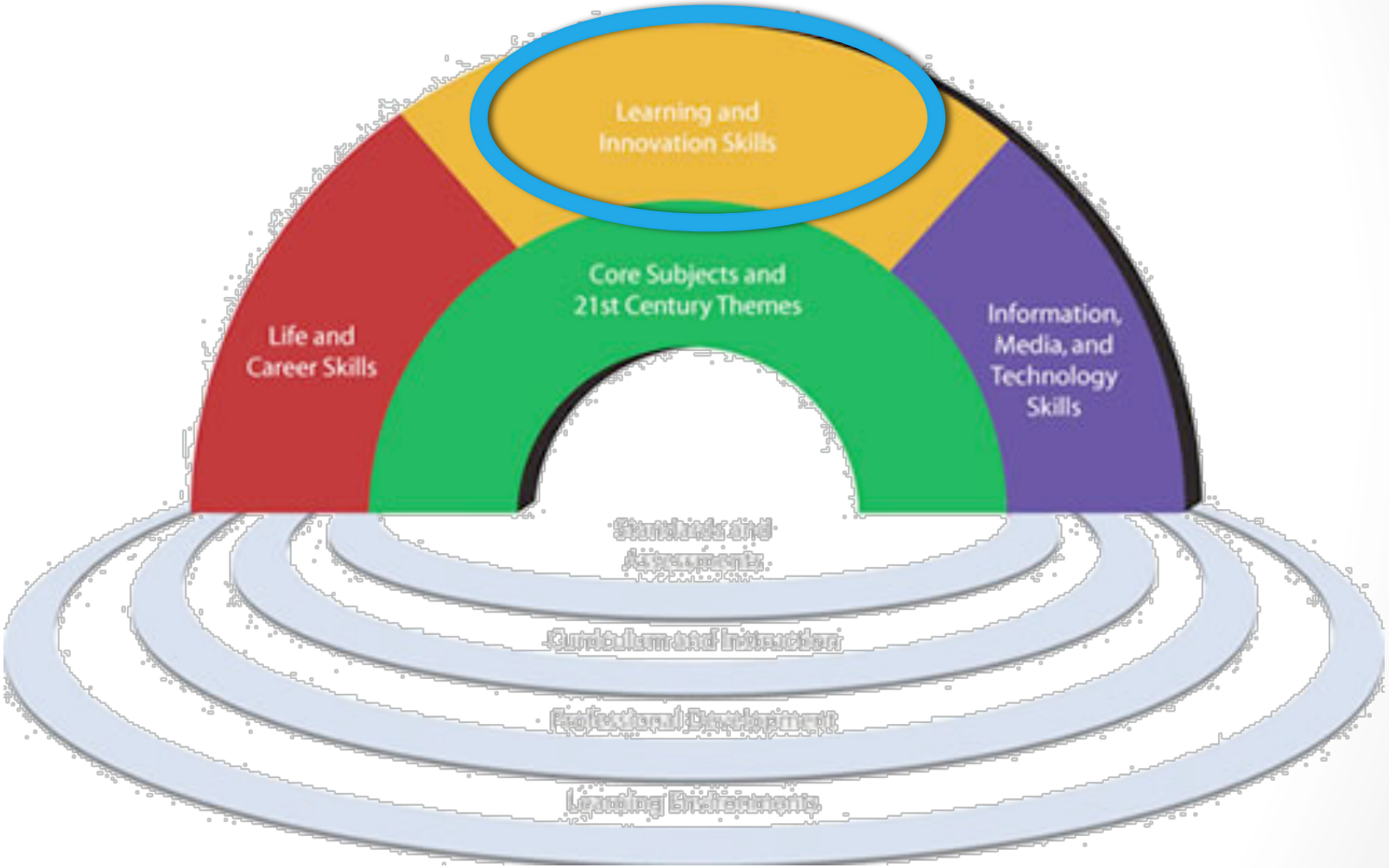
Learning & Innovation Skills



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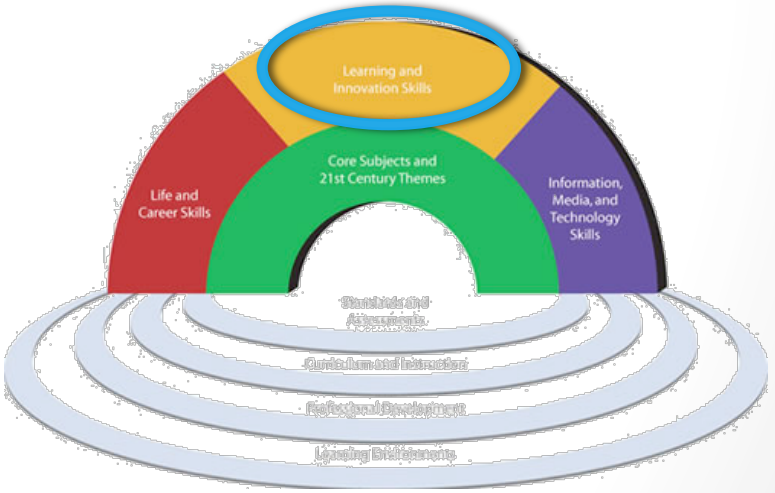
Learning & Innovation Skills

- Critical Thinking
- Communication
- Collaboration
- Creativity



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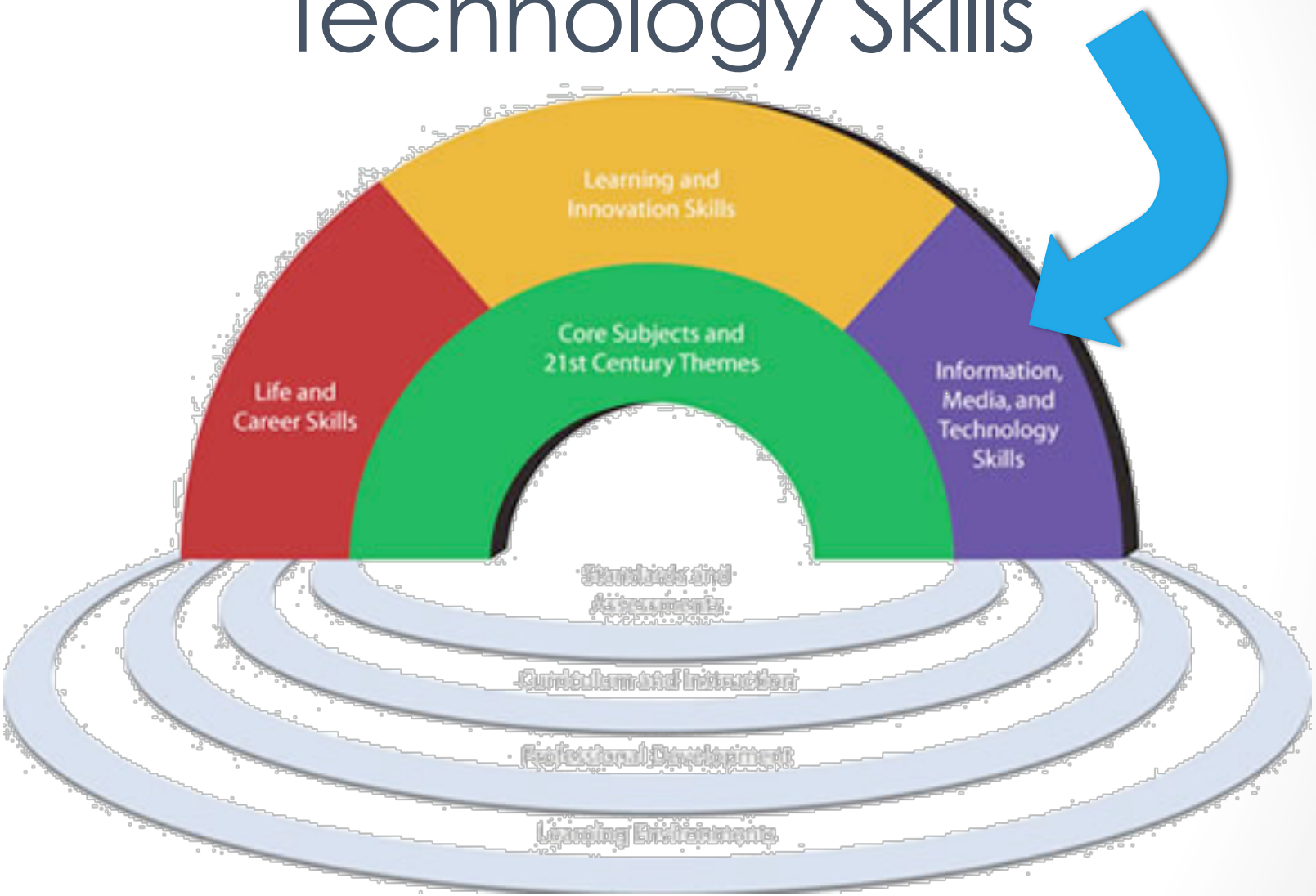
Information, Media, & Technology Skills



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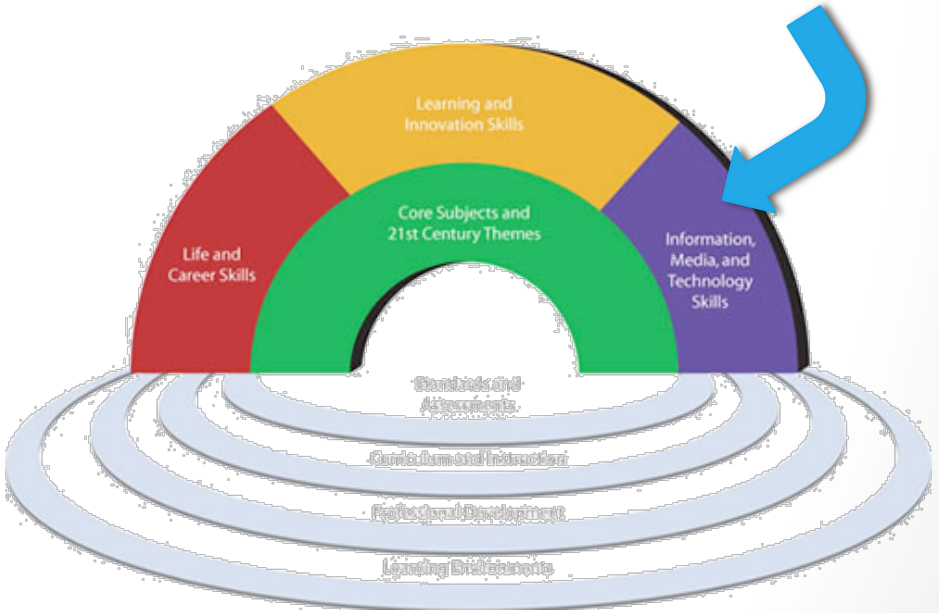
Information, Media, & Technology Skills

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



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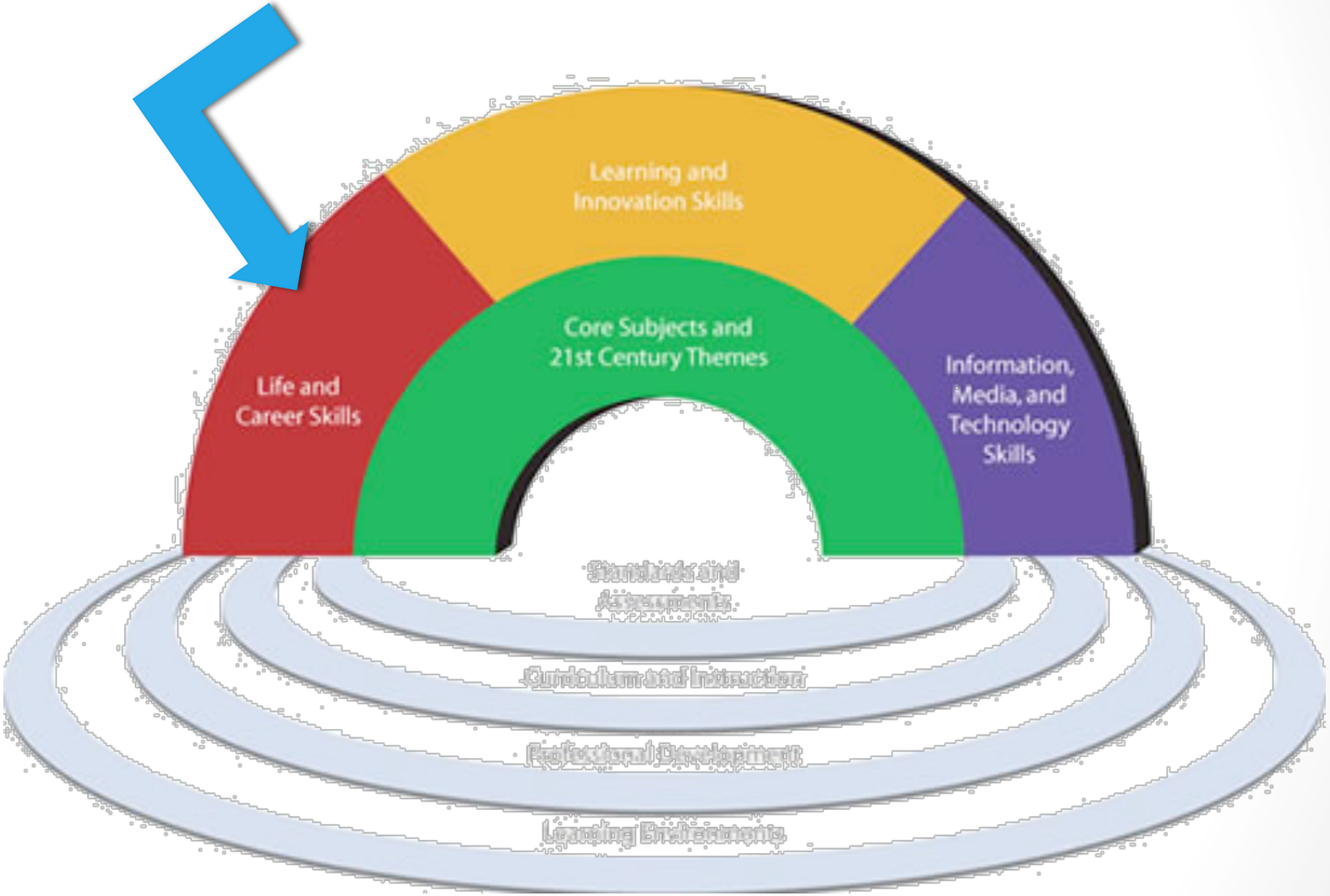
Life and Career Skills



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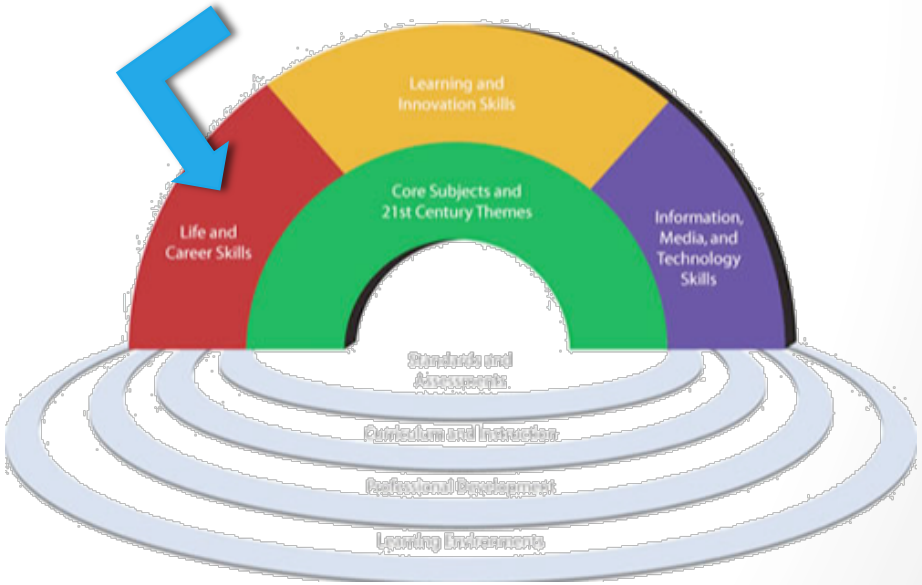
Life and Career Skills

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



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Support Systems

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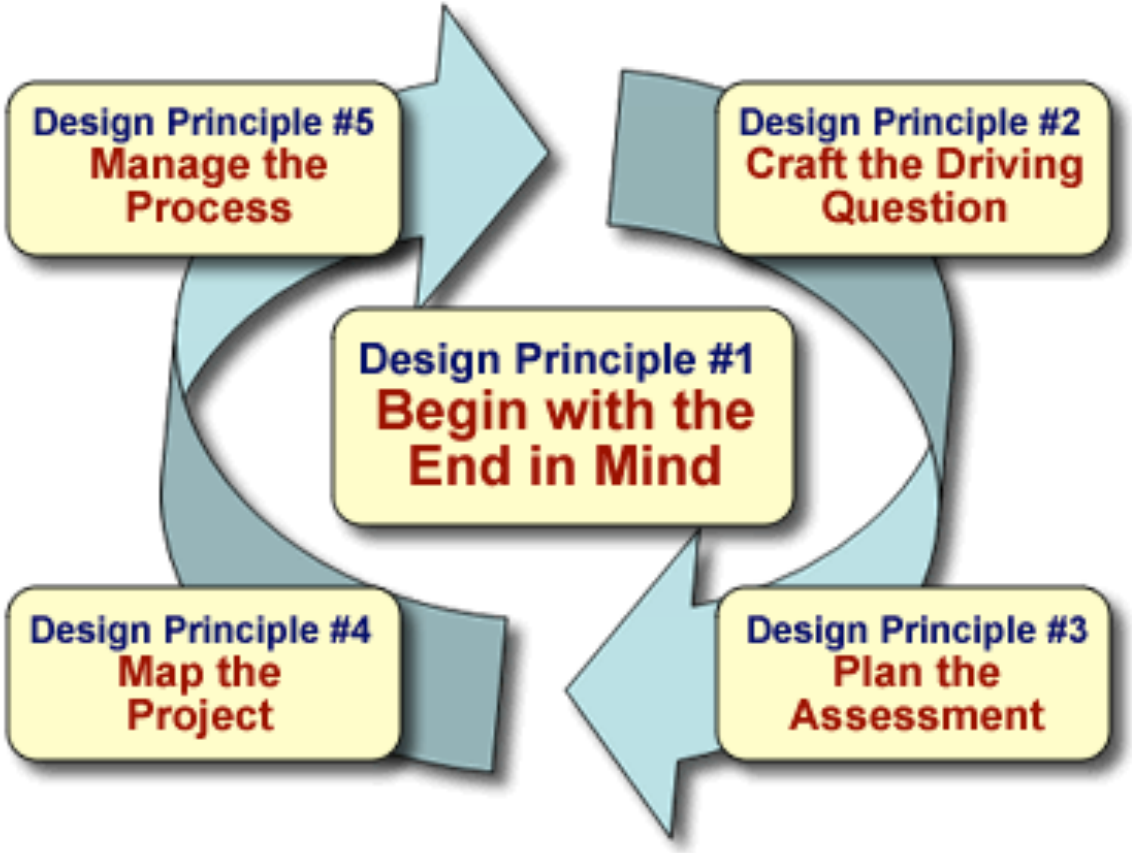
Project-Based Learning Process

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



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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!

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Management Hints and Myths

http://www.edutopia.org/blog/20-tips-pbl-project-based-learning-educators-andrew-miller

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

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Lowered “risks”

READY-MADE PROJECTS

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Projects by Jen

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

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Iditarod – Electronic Project

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

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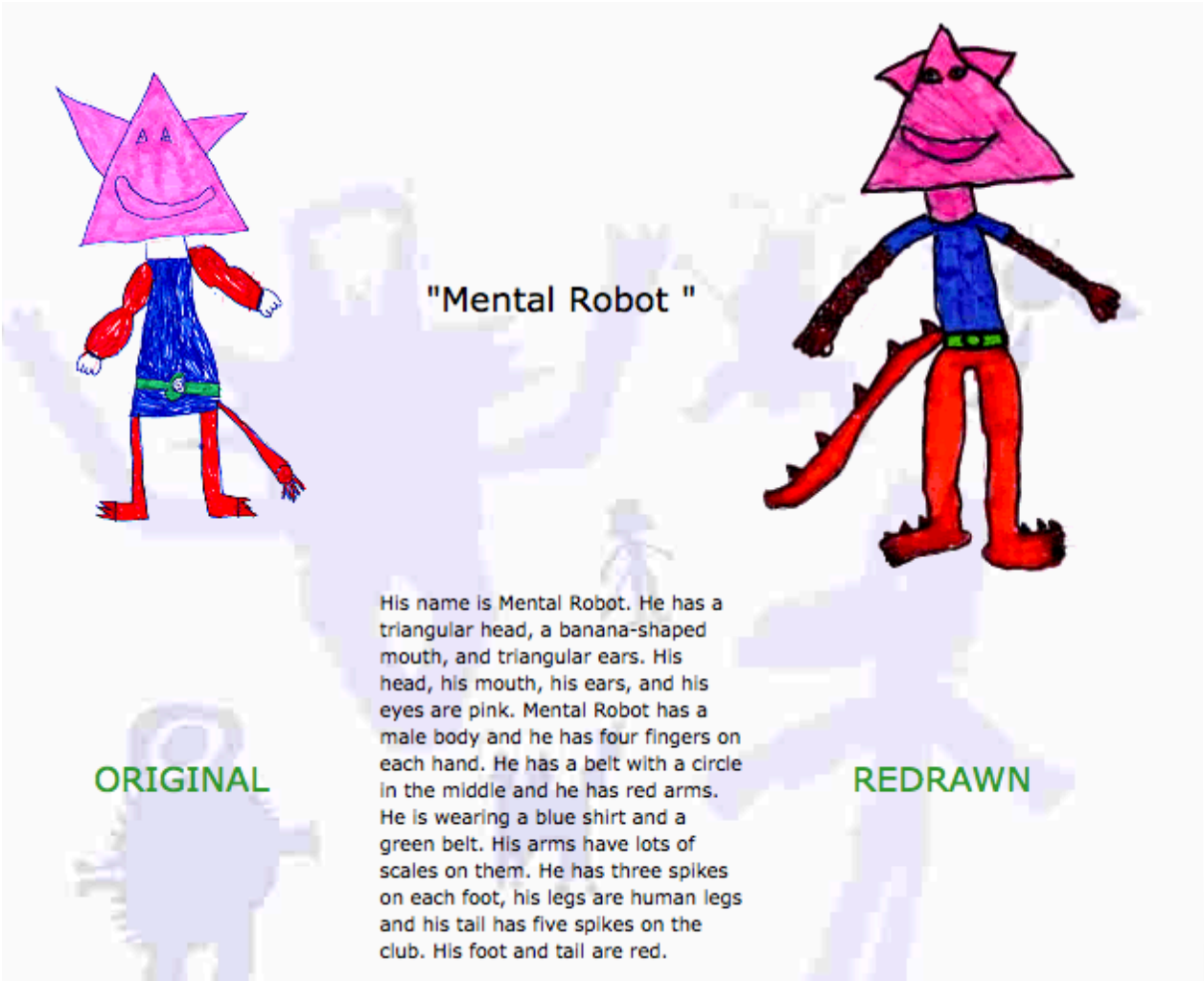
Monster Project

http://www.monsterexchange.org/



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Flat Stanley

http://www.flatstanley.com/

(also an app on iTunes)

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

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Global Schoolnet

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

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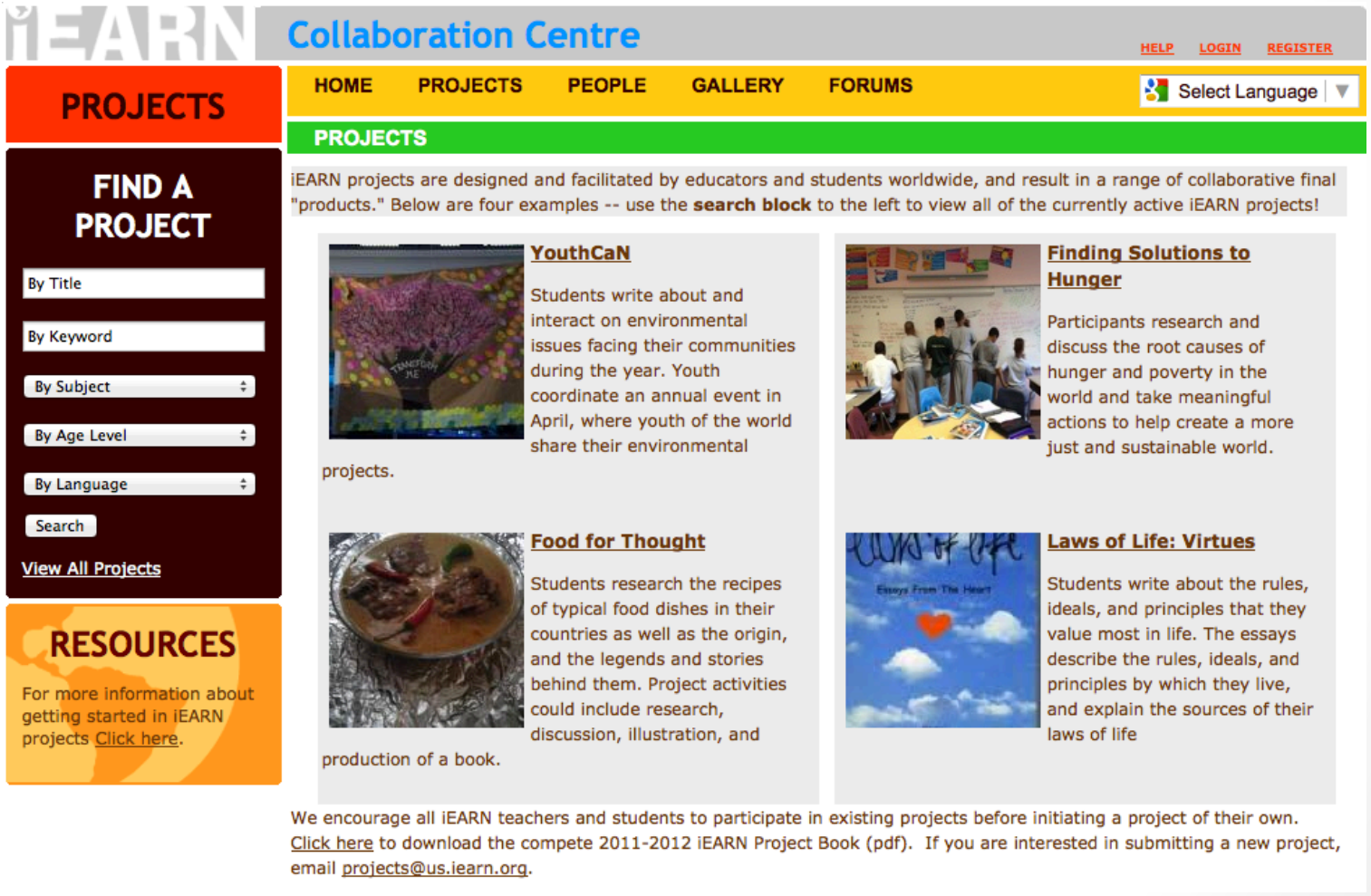
iEarn

http://media.iearn.org/projects



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The Global Classroom Project

http://theglobalclassroomproject.wordpress.com/

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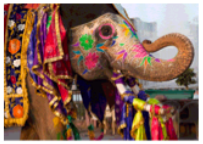
ePals Projects

http://www.epals.com/projects/info.aspx?DivID=index

ePals Projects

Project	Topic	Essential Questions	Overview	Community
Holidays and Festivals Around the World 	People and Culture	1. Why do people celebrate? 2. What special traditions and rituals surround holidays and festivals? 3. What holidays and festivals are important parts of your culture? 4. What holidays and festivals are important in other cultures? 5. What do celebrations around the world have in common? 6. 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 ePals
Digital Storytelling	Culture and Literacy	1. What is digital storytelling? 2. What are the elements of a good story? 3. Why do people tell stories? 4. 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

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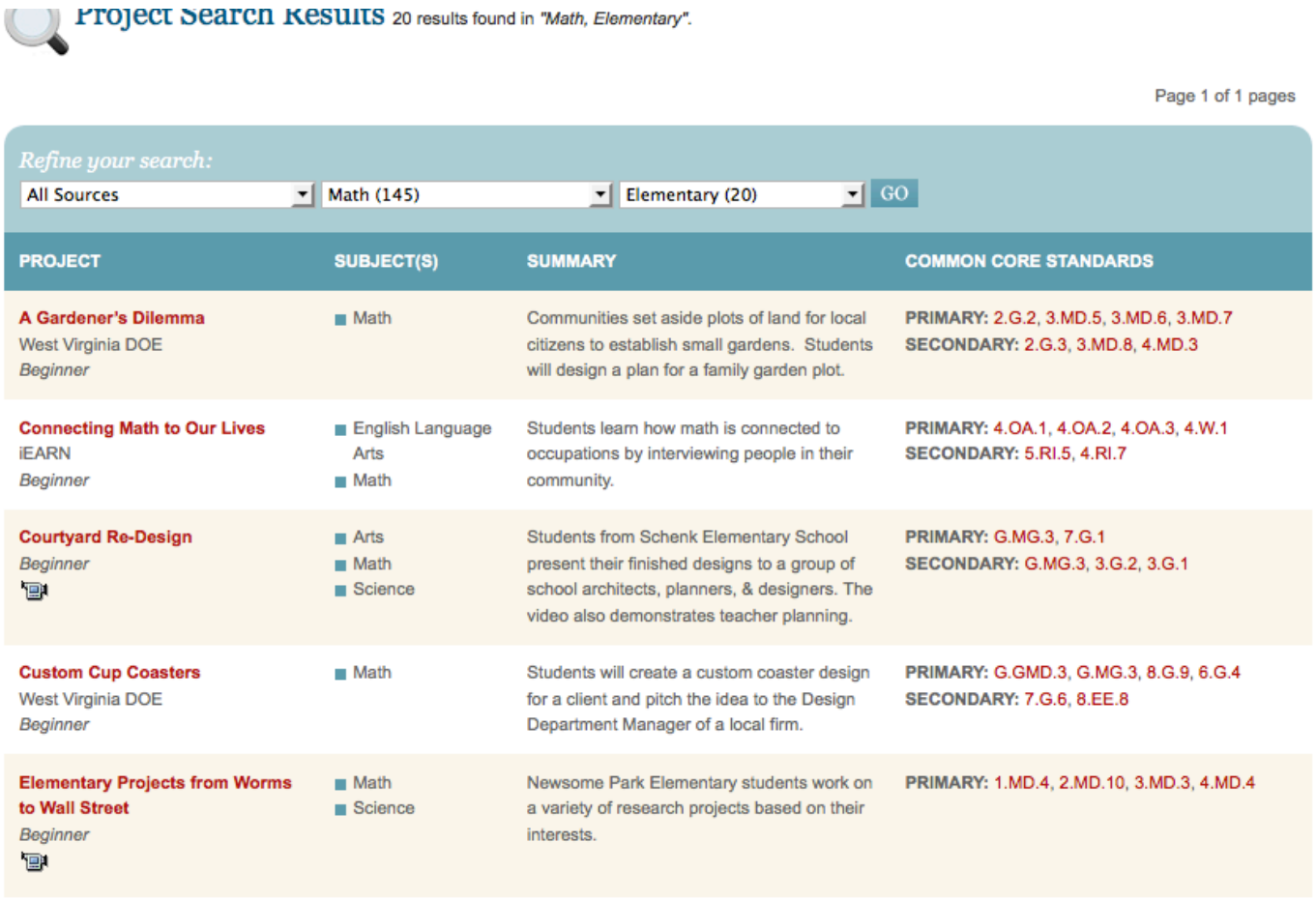
Project Search

- http://www.bie.org/project_search



Project Search Results 20 results found in *"Math, Elementary"*.

Page 1 of 1 pages

Refine your search:

All Sources | Math (145) | Elementary (20) | GO

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*	■ 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

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Some Past Projects

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

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Examples (ideas)

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

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Teachers Looking for Collaborators

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

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TOOLS FOR PBL

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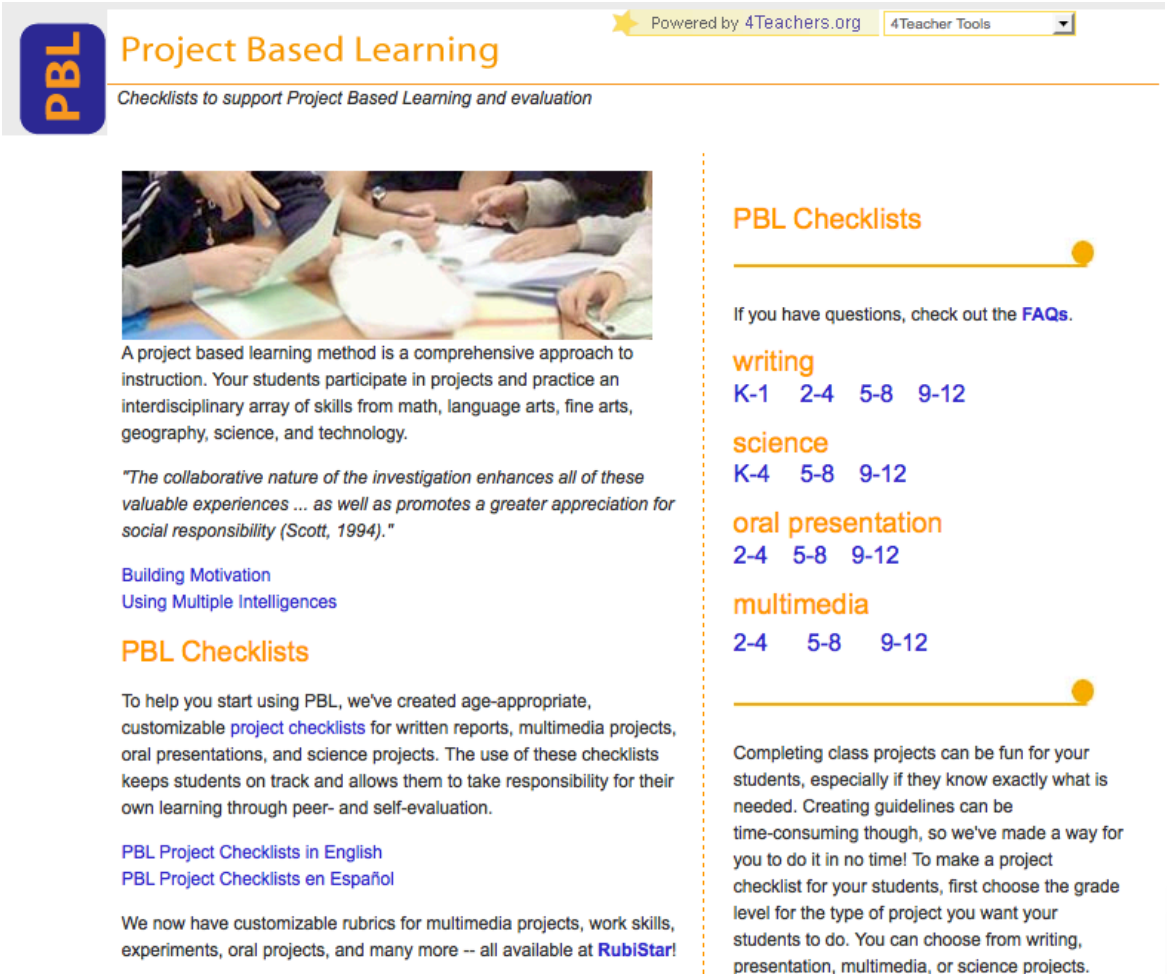
Checklists

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



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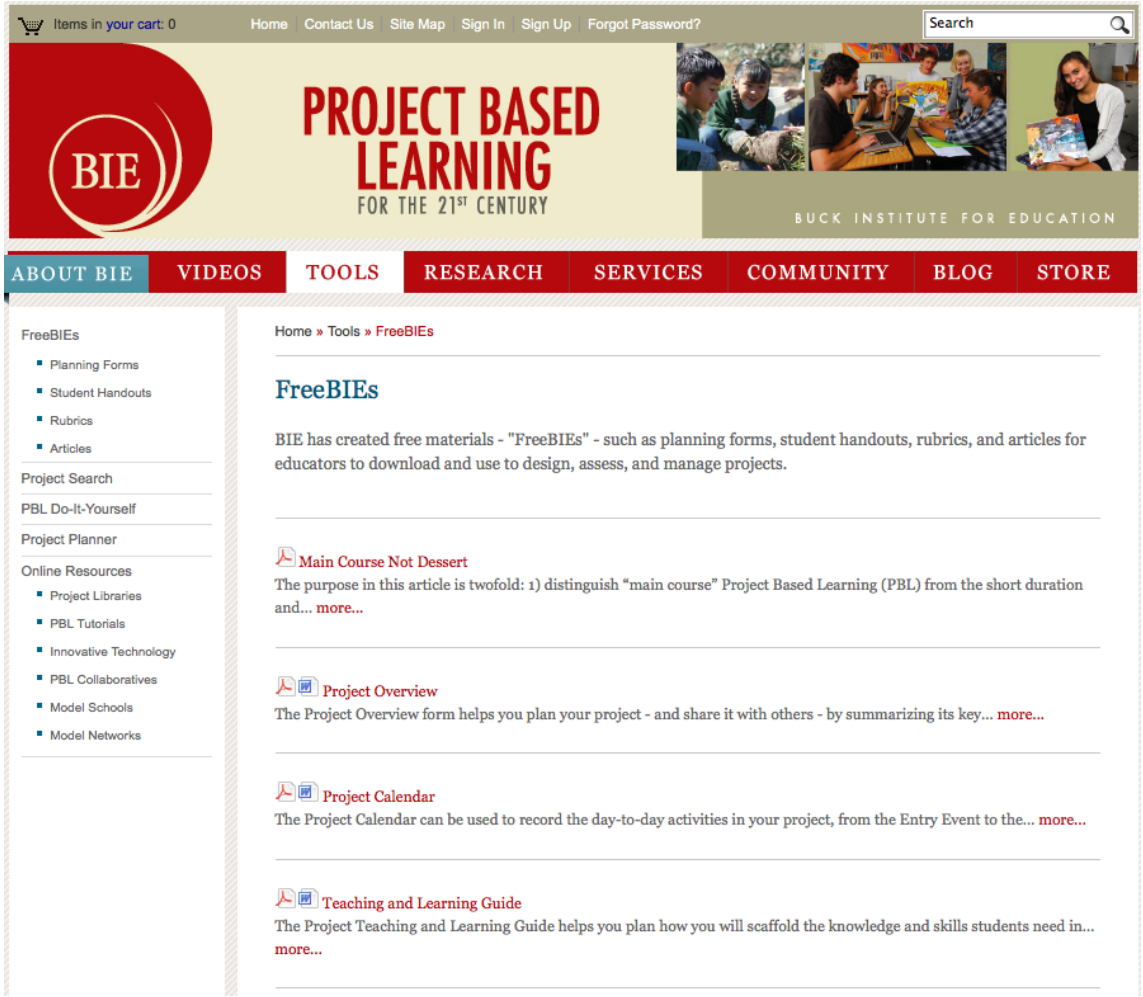
Checklists and MORE

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



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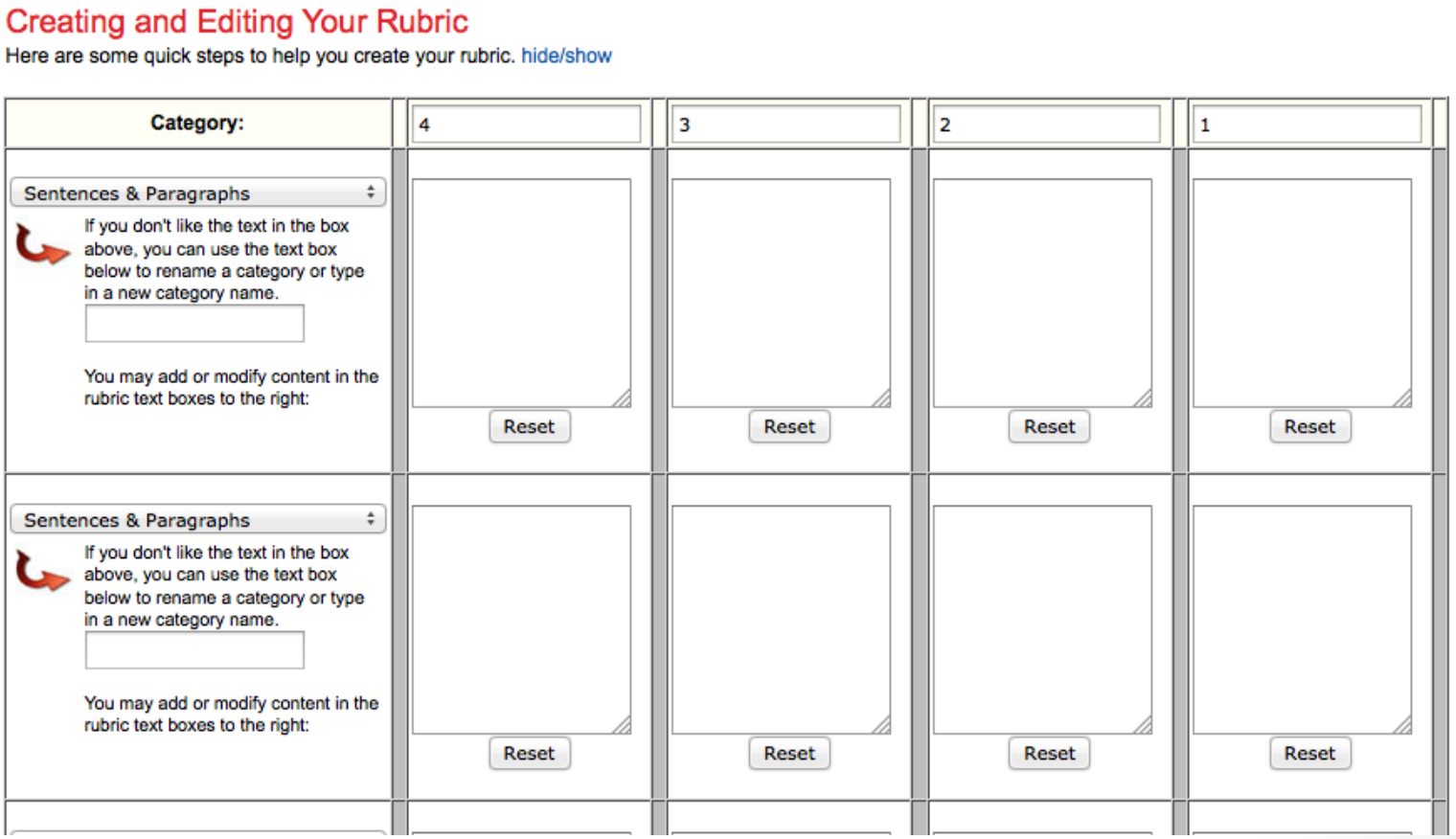
Rubric Maker: Rubistar

http://rubistar.4teachers.org/



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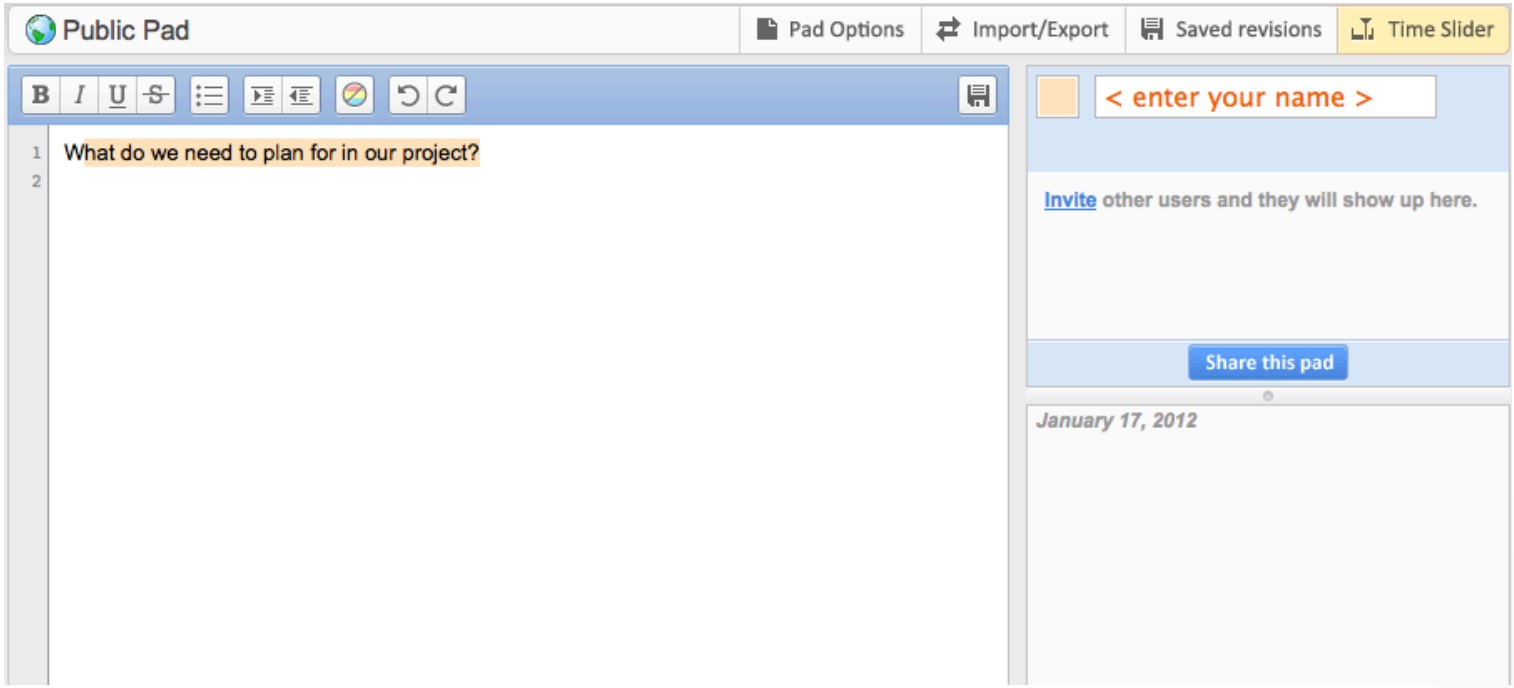
Shared Documents

- https://docs.google.com
- http://titanpad.com
- http://stixy.com



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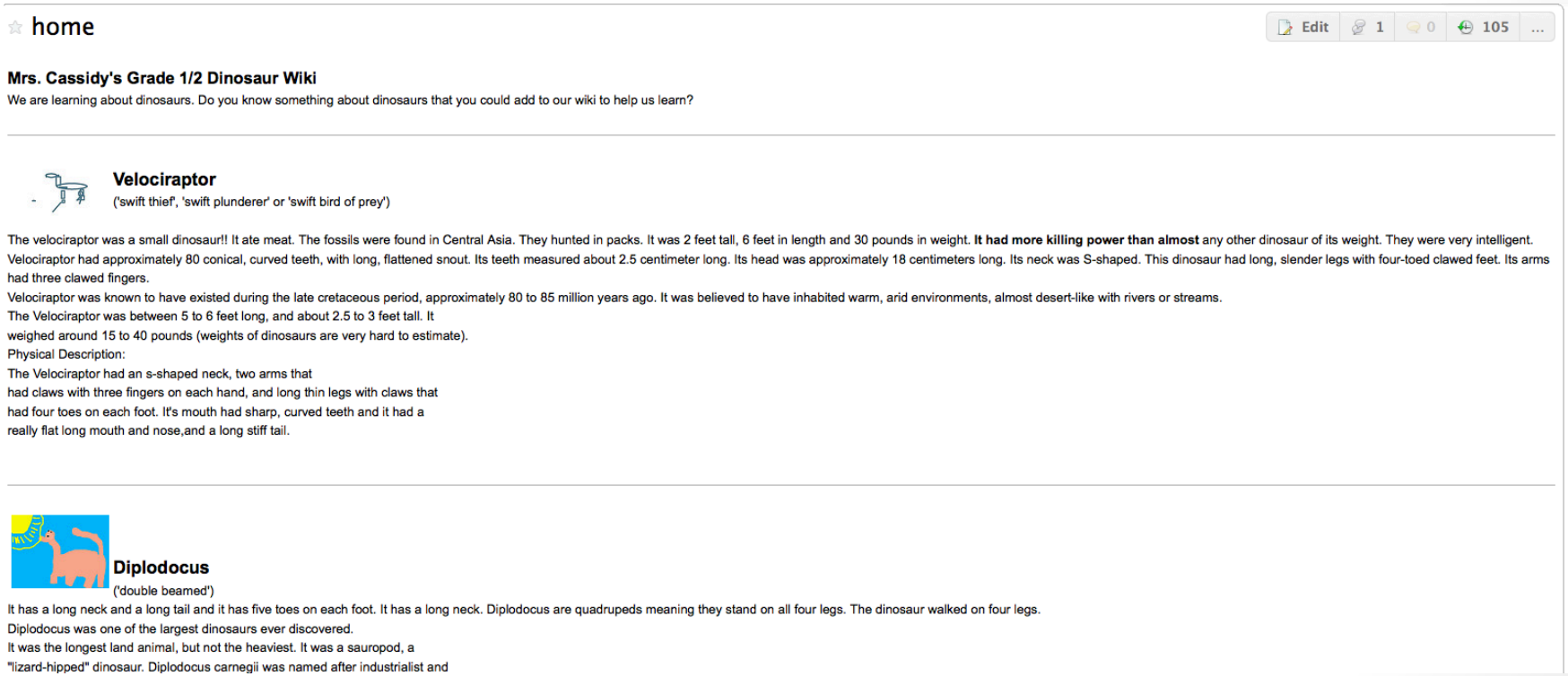
Wikis and Websites

http://wikispaces.com

http://Yola.com



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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…

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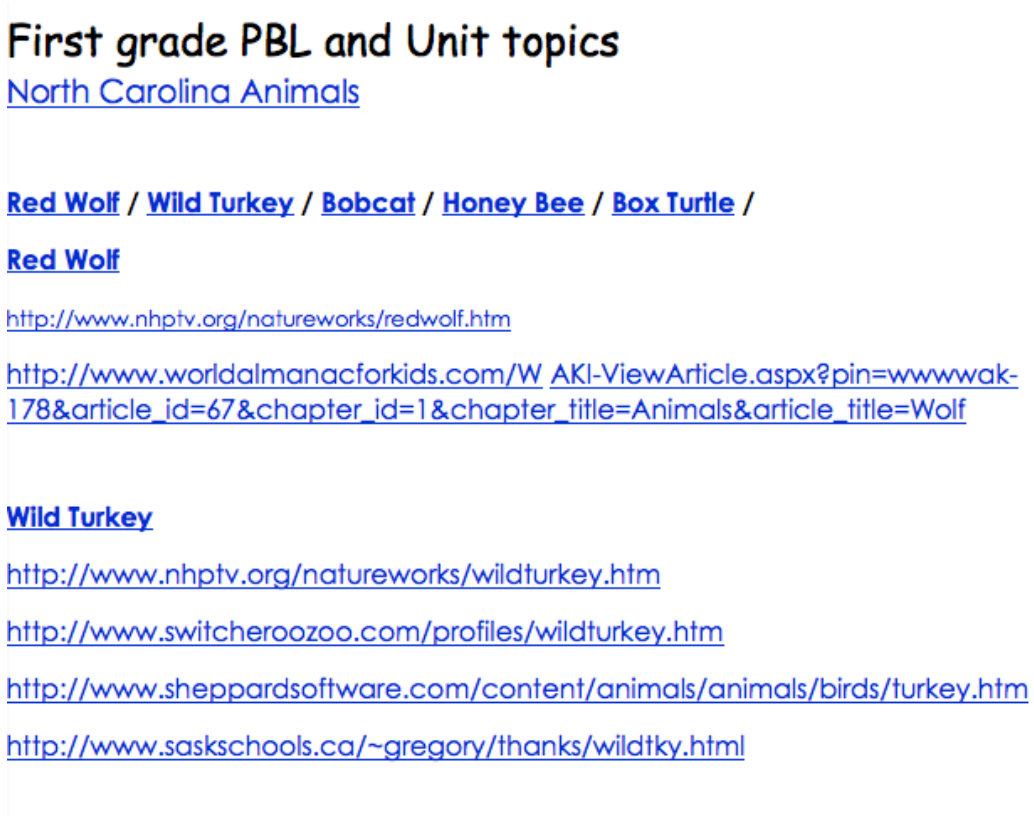
Scaffolded Research

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



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=wwwwak-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

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OUR PROJECT!

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

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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?

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Some related resources

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

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Leaders in PBL

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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-based-learning-elementary-classroom-john-larmer

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Blogs by PBL Experts

http://biepbl.blogspot.com/

http://educationaltechnologyguy.blogspot.com/search/label/PBL

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

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

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Research and Examples

http://www.edutopia.org/project-based-learning-student-motivation

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

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

http://www.classroom20.com/

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Comes down to this…

OWNERSHIP is key.

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

- Technique
- Structure
- Audience
- Tools
- Media

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Comes down to this…

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**.

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Comes down to this…

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.

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Comes down to this…

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.

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Comes down to this…

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."

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Comes down to this…

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.

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What will you do next?

It is ALL up to YOU!

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