

Project-Based Learning: EVERY Day for EVERY Child!

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PK1 - CKA

Santa Clara Convention Center

Santa Clara, California

Saturday, January 18, 2015, Session C-9 3:15 - 4:45 PM

Contact information:



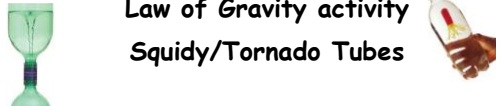

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Project-Based Learning is the foundation for the implementation of Common Core Standards. Experience first-hand how PBL through science activities will bridge the gap between all curricular areas while offering highly engaging activities for students.

Topic	Activity
<p><u>Introduction - Project-Based Learning spells SUCCESS!</u> Self-selected, Utilize resources, Creativity, Critical thinking, Engaging, relevant learning experiences, Skills for organization, and Social learning</p>	<p>Law of Gravity activity Squidy/Tornado Tubes</p> 
<p><u>PBL activities</u></p> 	<p>Superabsorbant polymer crystals Rainbow tubes/Color mixing Cornstarch peanuts- construction</p>

Resources to Support PBL:

Year Round Project-Based Activities for STEM grades 1-2 (Lester, Stephanie, 2013, ISBN 1420630253)

Teaching STEM in the Early Years (Moomaw, Sally, 2013, 978-60554-121-1)

Young Investigators: The Project Approach in the Early Years, 2nd Ed, (Harris Helm, Judy & Katz, Lillian)

Science Through the Year (Lester, Stephanie, 2007, 978-1420687705)



**Commit to introducing your students to at least one
PBL experience each week!**

Project-Based Learning

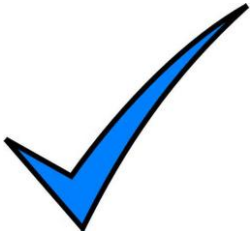
Children are naturally full of curiosity and love to investigate. The Project-Based Learning (PBL) approach to teaching is inquiry-based which is defined as the process of asking questions and trying to find answers for those questions. Using this teaching approach effectively requires a combination of introducing engaging materials yet balancing the fun with the purposeful integration of connective activities that encourage the development of high level critical thinking skills.

Project-Based Learning, simply put, is *learning-by-doing* and tends to be deeper learning that is more relevant to students and thus remembered longer. We need to educate students to be global competitors and to do so, we must require them to think creatively, to take risks, and put what they are learning into practice.

Project-Based Learning spells **SUCCESS!**

- **Self-Selected activities** - develops decision-making and increases engagement
- **Utilize Resources** - uses for technology as a tool to develop digital literacy—performing tasks effectively in a digital environment by incorporating interactive white boards; Skype; videotaping; publishing to create props such as labels, signs and charts. Uses for a wide variety of materials to encourage exploration and discovery.
- **Creativity** — activities that allow for innovative strategies or solutions to be shared; (a reminder that creativity is not for the select few—we can all be creative with practice)
- **Critical Thinking** — open-ended questions or prompts that lead to higher level thinking, risk-taking, and investigation (solving problems versus finding the one correct answer)
- **Engaging Relevant Learning Experiences** — activities related to students' lives make the concepts being taught more meaningful, and thus more memorable (global awareness activities)
- **Skills for Organization** — self regulation, planning, and sequencing to use the information provided or researched (learning how to implement ideas and use all the information gathered)
- **Social Learning** - in a classroom and via technology (helps students internalize their observations, initiate higher level thinking, and see the bigger picture) **collaborations, practice communicating** — sharing ideas, theories, discoveries; using appropriate vocabulary; demonstrating understanding through drawings, graphs, charts, etc. (developing social skills necessary to work in groups)





Collaborate and identify at least three ways that you can provide Project-Based Learning opportunities for the students in your classroom to develop these life skills.

Self-Selected Activities	Utilize Resources	Creativity
Critical Thinking	Engaging Relevant Learning Experiences	Skills for Organization
Social Learning	Project Based Learning is	



Project Based Learning spells:

Self-Selected



Utimize Resources



Creativity



Critical Thinking



Engaging Relevant Learning
Experiences



Skills for Organization



Social Learning

