Unlocking the Potential: The PDE Standards Aligned System (SAS) Portal and Project-Based Learning (PBL) for Librarians and Media Specialists

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This project is made possible in part by Library Services and Technology Act (LSTA) funds from the U.S. Institute of Museum and Library Services and through Library Access Funds administered by the Office of Commonwealth Libraries, Department of Education, Commonwealth of Pennsylvania, Tom Wolf, Governor.
Essential Questions

- Why do librarians, media specialists, teachers, and administrators need to develop a better understanding of the SAS Portal?
- What tools are available in the SAS Portal for us?
- How could we implement the SAS Portal tools in our own libraries and media centers?
- What impact does PBL have on school and public libraries and media centers?
- What activities can we do in our libraries using PBL?
Learning Goals

• Develop an understanding of the SAS Portal and its applications in your libraries and work
• Learn about the available tools in the SAS Portal
• Brainstorm for ideas about implementing the SAS Portal tools in libraries and media centers
• Learn about PBL teaching and learning strategies
• Develop PBL activities to use in libraries and media centers
INTRODUCTIONS

Tell everyone:
1. Your actual name
2. What you hope to achieve with the information from this workshop
3. One unique thing about you
Learning Analytics Defined
The SAS Portal Explained

Meet the 2018 Pennsylvania Teacher of the Year

Congratulations to Jennifer R. Wahl who was named the 2018 Pennsylvania Teacher of the Year at the Keystone Awards of Excellence ceremony at the SAS Institute.

Selected from a field of applicants from across the commonwealth, Jennifer is a science teacher at Loyalsock High School in the Loyalsock Township School District.

In concert with the National Teacher of the Year Program, the Pennsylvania Department of Education identifies and honors exemplary teaching and classroom practices across the Commonwealth. This award recognizes a professional who inspires students of all backgrounds and abilities to learn; who has the respect and admiration of students, parents, and colleagues; and who plays an active and useful role in both school and community.

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The Library Model Curriculum is based on the Pennsylvania Core Standards for English Language Arts, Reading and Writing in Science & Technology/Technical Subjects, Reading and Writing in Social Studies and History and the Pennsylvania Academic Standards in Business, Computer and Information Technology.

To gain a deeper understanding of the PA Library Model Curriculum Instructional Frameworks, their purpose and design, the documents below may prove helpful:

- Long Term Transfer Goals, Big Ideas, Essential Questions and Competencies
- Model Curriculum – Stages 1 – 3
- Library Information Concepts
- Standards Alignment
- WHERE TO
- GRASPS
- Master Chart of Performance Tasks

To gain an understanding of how to create your own performance tasks, the documents below may prove helpful.

- Examples of Instructional Strategies
- Supplement PK-2
- Supplement 3-5
- Supplement 6-8
- Supplement 9-12
Professional Learning Communities

School Librarians’ Role in Student Learning

Forum for discussion and collaboration on PA Core Standards, the PA Model Library Curriculum, assessment, and improvement of student learning. Anyone who has a vested interest in school libraries and student achievement is invited to participate in this Professional Learning Community.

Created on Tuesday, July 30, 2013.
Last updated on Monday, April 09, 2018.

Building Capacity for STEM Professional Learning Community

The purpose of the Science, Technology, Engineering, and Mathematics (STEM) Learning Community is to share information, resources, and best practices to build capacity in the development of STEM initiatives within the commonwealth. We strongly encourage you to also join the Mathematics Learning Community, Technology and Engineering Education Learning Community, and the Science Learning Community as part of the discussions revolving around STEM Education.

ELA CAI Community

Welcome to the ELA CAI Community! The Learning Community provides an avenue to connect with educators of all levels across the Commonwealth. The ELA CAI Community provides a collaborative environment to extend and enhance the discussion of important issues with PDE staff and colleagues regarding teaching, learning, and assessing. Please join us by discussing and sharing important issues, challenges, and ideas that promote the effective and successful teaching, learning, and assessing ELA throughout the Commonwealth.
State and National Standards

- The Model Curriculum for Pennsylvania School Library Programs Alignment with PA Core Standards on [http://pdesas.org](http://pdesas.org)


Three Dimensional Learning & PBL
WHAT IS _____-BASED LEARNING?

FILL IN THE BLANK WITH THE TERM(S), WHICH YOU HAVE USED OR HEARD.
WHAT IS BASED LEARNING?

- Case-based learning
- Challenge-based learning
- Community-based learning
- Design-based learning
- Game-based learning
- Inquiry-based learning
- Land-based learning
- Passion-based learning
- Place-based learning
- Problem-based learning
- Proficiency-based learning
- Project-based learning
- Service-based learning
- Studio-based learning
- Team-based learning
- Work-based learning
WHAT DOES THE “P” REPRESENT?

• Passion-based learning
• Place-based learning
• Problem-based learning
• Proficiency-based learning
• Project-based learning
Project Based Learning vs. Problem Based Learning

**Similarities**

Both PBLs:
- Focus on an open-ended question or task
- Provide authentic applications of content and skills
- Build 21st century success skills
- Emphasize student independence and inquiry
- Are longer and more multifaceted than traditional lessons or assignments
### Differences

<table>
<thead>
<tr>
<th>Project Based Learning</th>
<th>Problem Based Learning</th>
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<tbody>
<tr>
<td>Often multi-subject</td>
<td>More often single-subject, but can be multi-subject</td>
</tr>
<tr>
<td>May be lengthy (weeks or months)</td>
<td>Tend to be shorter, but can be lengthy</td>
</tr>
<tr>
<td>Follows general, variously-named steps</td>
<td>Classically follows specific, traditionally prescribed steps</td>
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<td>---------------------------------------</td>
<td>----------------------------------------------------------</td>
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<tr>
<td>Includes the creation of a product or performance</td>
<td>The “product” may be tangible OR a proposed solution, expressed in writing or in a presentation</td>
</tr>
<tr>
<td>May use scenarios but often involves real-world, fully authentic tasks and settings</td>
<td>Often uses case studies or fictitious scenarios as “ill-structured problems”</td>
</tr>
</tbody>
</table>

Image Credit: John Larmer
Inquiry, Design, and PBL

- Asking Questions
- Developing and Using Models
- Planning and Carrying Out Investigations
- Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Engaging in Argument from Evidence
- Obtaining, Evaluating, and Communicating Information
Teaching Strategies for Deep Engagement

• Establish a framework for the work.

• Establish essential questions.

• Provide choice.

• Provide inspiration, models, and outside sources.

• Create opportunities for work to be shared with a wider audience.
Materials and Resources for PBL Development in SAS

- Karpeles Manuscripts
- Kinetic City
- MDC
- NLVM
- PHET
- PHMC
- TrueFLIX
Project-Based Teaching Practices
Given the information...

- What concepts could you teach?
- What essential questions are you answering?
- What parts of your curriculum are you addressing?
- What key skills are be integrated using PBL?
- How could the students be assessed?
Think-Pair-Share

1. Discuss what we have covered so far concerning PBL.

2. What ideas do you have for PBL?

3. Share an idea with the group.
Project-Based Learning

For more information and examples of PBL, go to:

- [http://www.bie.org/resources](http://www.bie.org/resources)
- [http://www.bie.org/project_search](http://www.bie.org/project_search)
- [http://www.teachthought.com/learning/project-based-learning/a-better-list-of-ideas-for-project-based-learning/](http://www.teachthought.com/learning/project-based-learning/a-better-list-of-ideas-for-project-based-learning/)
- https://www.sascurriculumpathways.com/portal/
- [https://www.edutopia.org/blog/20-ideas-for-engaging-projects-suzie-boss](https://www.edutopia.org/blog/20-ideas-for-engaging-projects-suzie-boss)
- [https://www.edutopia.org/blog/10-ready-borrow-project-ideas-suzie-boss](https://www.edutopia.org/blog/10-ready-borrow-project-ideas-suzie-boss)
Problem-Based Learning Projects NSF-ATE #0603143
http://www.pblprojects.org/

What is Problem-Based Learning

Engaging Students with PBL Part 1 of 2
https://youtu.be/VSAkRBxMR9A?list=PLPl24WShNGz1qEVCA4DuXN_AbG6_ygt46

Engaging Students with PBL Part 2 of 2
https://youtu.be/3nYX4UgaBM4?list=PLPl24WShNGz1qEVCA4DuXN_AbG6_ygt46
Adapting PBL for MS Part 1 of 2
https://youtu.be/QhrUWPHLcBQ?list=PLPl24WSHNGz1gEVCA4DuXN_AbG6_ygt46

Adapting PBL for MS Part 2 of 2
https://youtu.be/SHOf9gsul0k?list=PLPl24WSHNGz1gEVCA4DuXN_AbG6_ygt46

Problem-Based Learning vs. Project-Based Learning
https://www.edutopia.org/blog/pbl-vs-pbl-vs-xbl-john-larmer

Inquiry Learning
http://www.teach-nology.com/currenttrends/inquiry/

Inquiry Based Teaching Strategies
http://www.worksheetlibrary.com/teachingtips/inquiry.html
Online Research and Reading

- Project-Based Learning vs. Problem-Based Learning vs. X-BL
- Gold Standard PBL: Essential Project Design Elements
- A Call for Research, Training, and Standards for Early-Childhood STEM
- Researchers Probe Equity, Design Principles in Maker Ed.
- NSTA Best STEM Books
Online Research and Reading

• Learning Analytics Defined
  https://library.educause.edu/topics/teaching-and-learning/learning-analytics

• Learning Analytics: Avoiding Failure
  https://er.educause.edu/articles/2017/7/learning-analytics-avoiding-failure

• Leveraging Learning Data for Student Success
Questions

• Any questions?

• Next steps?

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