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

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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

www.education.state.pa.us > 5

www.education.state.pa.us > 6
The SAS Portal Explained

Meet the 2018 Pennsylvania Teacher of the Year

Congratulations to Jennifer H. 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 history teacher at Logan Township School District.

In keeping with the National Teacher of the Year Program, the Pennsylvania Department of Education identifies and honors exemplary teaching and classroom performance through 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 vital role in both the school and community.

The SAS Portal: Six Key Elements

www.education.state.pa.us > 8
SAS Portal: Assessments

www.education.state.pa.us > 9

SAS Portal: Curriculum

www.education.state.pa.us > 10
Professional Learning Communities

www.education.state.pa.us > 17

Professional Learning Communities

www.education.state.pa.us > 18
State and National Standards

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


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
**SIMILARITIES**

**Project Based Learning vs. Problem Based Learning**

*Similarities*

- 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**

**Differences**

<table>
<thead>
<tr>
<th>Project Based Learning</th>
<th>Problem Based Learning</th>
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</thead>
<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>
</tbody>
</table>
**DIFFERENCES**

<table>
<thead>
<tr>
<th>Follows general, variously-named steps</th>
<th>Classically follows specific, traditionally prescribed steps</th>
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<tbody>
<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*

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**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
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.
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.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

What is Problem-Based Learning

Engaging Students with PBL Part 1 of 2
[https://youtu.be/VSAkRBxMR9A?list=PLPl24WSnNGz1gEVCA4DuXN_AbG6_ygl46](https://youtu.be/VSAkRBxMR9A?list=PLPl24WSnNGz1gEVCA4DuXN_AbG6_ygl46)

Engaging Students with PBL Part 2 of 2
[https://youtu.be/3nYX4UgaBM4?list=PLPl24WSnNGz1gEVCA4DuXN_AbG6_ygl46](https://youtu.be/3nYX4UgaBM4?list=PLPl24WSnNGz1gEVCA4DuXN_AbG6_ygl46)
PBL and Inquiry Resources

Adapting PBL for MS Part 1 of 2
https://youtu.be/QhrUWPtLChg?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://wwwworksheetlibrary.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](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](https://er.educause.edu/articles/2017/7/learning-analytics-avoiding-failure)

- Leveraging Learning Data for Student Success
  [https://library.educause.edu/~/media/files/library/2015/10/ewq1510-pdf.pdf](https://library.educause.edu/~/media/files/library/2015/10/ewq1510-pdf.pdf)

Questions

- Any questions?
- Next steps?

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