



# PDS ORIENTATION INFORMATION

- 1) Provide you with an orientation to MU's Program
- 2) Encourage you to learn from current students
- 3) Share an overview of our district partners
- 4) Tell you about the interview & orientation process
- 5) Review process for selecting your top three districts



# SCHEDULE FOR PDS INTERNS

## Fall 2026:

- ✘ Mondays & Tuesdays: Classes on Campus (strategies learned)
- ✘ Wednesday, Thursday, Friday: Full School Days (strategies implemented)

## Spring 2027:

- ✘ Full-time Student Teaching



# THE PROCESS

1. Select your top three districts (for initial interviews)
2. Virtually interview for approximately 10 minutes per teacher (the number of interviews you have will vary)
3. **Teachers** select Interns who are a “fit” for their classroom
4. Final selection determined by PDS Faculty Committee then approved by district administration prior to student notification



# PDS PARTNER DISTRICTS

Hempfield School District

Conestoga Valley School District

Lampeter-Strasburg School District

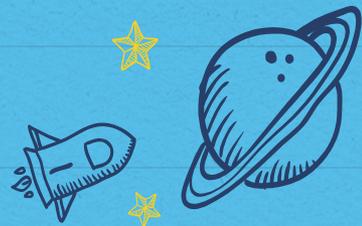
Manheim Township School District

Penn Manor

School District of Lancaster

Warwick School District

York Suburban School District



# PDS COMPONENTS

- ✘ Wise mentor/intern matches (interviews + mid semester checkpoint)
- ✘ Time to build strong relationships
- ✘ Deep immersion in the classroom and building culture
- ✘ Defined classroom experiences
- ✘ PDS Mentor/Intern Handbook
- ✘ Elimination of “start-up” time mid-year
- ✘ Supportive MU faculty presence
- ✘ Co-teaching
- ✘ Action Research/STAR Conference & Made in Millersville



# Engaging Students in Reading through Autonomy and the BHH Framework

Sarah Sambrick, Millersville University



## Inquiry Question:

What effects will autonomy and the Book, Head, Heart framework have on student's reading motivation and ability to apply text to their lives?

## Inquiry Purpose:

Through the participation of book clubs and mini lessons on the Book, Head, Heart framework (Beers and Probst, 2017) student's reading motivation and ability to make connections from the text to their real lives will increase. Readers will participate in discussions that scaffold their abilities to make connections from their past learning to the text. Additionally, teachers will stress the importance of reading by allowing students time in class to complete their weekly readings (Gallagher, 2003). They will also learn how to be more active readers as they practice annotating their text as they read using total participation annotation techniques (Himmele and Himmele, 2011). The students will complete several formative assessments but discussions will not be strictly graded to maintain a level of comfort and trust among group members (Daniels and Zemelman, 2014). The teacher will monitor and facilitate discussion, encouraging students to question the text and use their knowledge of the text to think beyond literal meaning to draw conclusions and make inferences (Tovani, 2004).

## Review of Literature

Beers, G. K., & Probst, R. E. (2017). *Disrupting thinking: Why how we read matters*. New York, NY: Scholastic.

Daniels, H., & Zemelman, S. (2014). *Subjects Matter: Exceeding Standards through Powerful Content-Area Reading*. Portsmouth, NH: Heinemann.

Gallagher, K. (2003). *Reading reasons: Motivational Mini-Lessons for Middle and High School*. Portland, ME: Stenhouse.

Himmele, P., & Himmele, W. (2017). *Total participation techniques: Making Every Student an Active Learner*. Alexandria, VA: ASCD.

Pennsylvania Department of Education. (2019). *Academic standards for English Language Arts Grades 6-12*. Harrisburg, PA: Authors.

Tovani, C. (2004). *Do I Really Have to Teach Reading?: Content Comprehension, Grades 6-12*. Portland: Stenhouse.

## Research, Design, Participants, and Data Collection:

- This study was conducted over the course of four weeks in two different sixth grade English Language Arts classroom. Groups met on five separate occasions. During each meeting the teacher acted as a discussion facilitator as students answered a set of predetermined discussion questions in their book club groups.
- The context of the participants in the study were as follows: 39 sixth grade students - 16 females and 23 males; Suburban middle school, met over the course of four consecutive weeks for approximately 30 minutes during a 90 minute ELA block.
- Steps of data collection: 1) Anonymous surveys were administered at the end of the first week of book clubs and after the final book club meeting. 2) Observation of discussions during book club meetings. 3) Student written artifacts (Thought Logs, formative assessments).

I have read a book recently that I learned a valuable life lesson from

37 responses



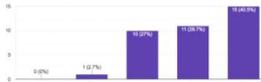
Knowing how to read well is

37 responses



I felt motivated to complete my reading each week

37 responses



I like to/would read multiple books by the same author

36 responses



When my teacher asks me a question about what I've read I

37 responses



## Instructional Methods:

**Book Choosing Day:** The teacher presented several books to the students and read a short sample of each. Students ranked their book club choices from most to least desired and were placed into groups based on their preferences.

**Pre-meeting:** The students were given their "thought logs" and reading calendars. They established their reading schedule over the next four weeks in their groups. Additionally, students were taught several symbols from the Talking to the Text TPT to use in their logs. The "big questions" for week one were explained: What is the story about? Who is telling the story?

**Meeting one:** Students discussed the big questions for week one reading as well as three rewritten discussion questions in their book club groups. They were given "Conversation Moves" sentence starters to guide discussion. Students individually completed a worksheet centered around character development and tone. After discussion the big question for week two were explained: What is the main conflict of your story?

**Meeting two:** Students discussed the big questions for week two reading as well as three rewritten discussion questions in their book club groups. Students recorded their answers to the questions on a separate worksheet. After discussion the big question for week three were explained: What surprised me? What challenged, changed, or confirmed your thinking?

**Meeting three:** Students discussed big questions for week three reading as well as three rewritten discussion questions in their book club groups. After discussion the big questions for week four were explained: What did this book teach you about other people? What did this text teach you about yourself? How will your actions or feelings change as a result of reading this book? Students were instructed to record one "Aha Moment" in their thought logs for the following week.

**Meeting four:** Students discussed big questions for week four reading as well as three rewritten discussion questions in their book club groups. Students worked in their groups to identify the main theme of the book. The final writing project was explained and final surveys completed.

## Data Analysis:

### Analysis of Surveys

- When asked to rate their motivation to complete their readings each week for book clubs on a Likert scale of 1-5, approximately 70% of students indicated either a 4 or 5.
- When asked if they would like to read multiple books by the same author at the end of the book clubs, approx. 72% of students answered "yes" and of that percentage, 42% listed Jordan Sonnenblick as the author they would like to read multiple books by.
- When asked if they had read a book recently that taught them a valuable life lesson, approx. 78% of students indicated that they had and of that percentage, approx. 79% listed their book club books as the book that taught them a life lesson.
- Approx. 92% of students indicated that the amount of work required of them for book clubs was "just right."

### Analysis of Discussion

- Students frequently used academic vocabulary and knowledge of past lessons to discuss events in their books each week.
- Students shared their opinions/predictions about the book while engaging in conversations centered around character development, plot, conflict, tone, and point of view.
- Students remained on task during discussion time with minimal redirection from the teacher.

### Analysis of Formative Assessment

- Students answered the Big Questions for each week with responses that indicated depth of thought and connection to their lives.
- Students demonstrated metacognition while reading by recording their thoughts, questions, and connections using the TPT Talking to the Text in their weekly reflections.

## Key Findings:

Students enjoyed sharing the experience of reading with their classmates.

- Students shared that they liked having the time to "talk about their thoughts with like-minded people."
- When asked how to improve book clubs, several students expressed that they wished they had more time in their groups to continue conversation about their books.

Students learned valuable life lessons and identified meaningful themes from their reading.

- Students wrote theme statements centered around family relationships, identity, forgiveness, loss, and many other valuable topics.

Students wished for even more autonomy.

- When asked how to improve book clubs, many students answered that a wider variety of books to choose from would have enhanced their experience.
- Several students also suggested that they would enjoy having time to talk about their reading without the guided questions.

## Implications:

Creating opportunity for students to discuss common reading with their classmates in book clubs is extremely beneficial in the middle school classroom. Guided discussion about common reading helps students make deeper connections to the text and enhances their own reading experience. Students are motivated to complete readings and assignments in order to participate in book club meetings. The Book, Head, Heart framework serves as a helpful scaffold to getting students to make deeper connections with the text in order to allow for application to real life. Additionally, formative assessments are beneficial to increase student accountability.



# The Effect of Project Based Learning on Science: An Exercise in Divergent Thinking

Cassandra E. Buszta, Millersville University

Action Research Project



## Inquiry Question & Problem Based Learning (PBL) Driving Question

**Inquiry Question:**  
How does project-based learning (PBL) in science affect creator/innovator?  
**PBL Driving Question:**  
How can we, as scientists, educate our community about where our water comes from and how to keep it clean?

## Inquiry Summary

### The Importance of Divergent Thinking:

- Divergent thinking is the ability to produce a diversity of responses to an open-ended problem. (Gardner, 1999)
- According to Fisher and Glassman (2014), "Creativity is one of the most important skills we have to merge through the fast changing world of the 21<sup>st</sup> century. Creativity can be found in every field, when one has the willingness to look in a new way or when one has the ability to change."
- Understanding the creative potential has become a purpose of education for meeting students' intellectual and emotional needs. (Williams, C. 1997)
- According to Trevis (Williams) (1997), creativity is only found within the higher states of necessary motivation.

### Implementing PBL:

- PBL can engage students in higher levels of cognition recognized in Bloom's Taxonomy which are shown in Figure 1.
- According to Hallman and Lerner (2011), PBL merges the teaching of critical thinking skills with risk-taking.
- According to Lerner, (2011), "One-Test PBL teaches students the important concepts, standards, concepts, and in-depth understanding, they are fundamental to select subject areas and academic disciplines."
- In PBL, students learn how to apply knowledge to the real world, and use it to solve problems, answer complex questions, and create high-quality products. The essential PBL elements used in this project are shown in Figure 2.

### Connecting Creativity and PBL using the Williams' Creative Scale:

- The Williams' Creative Scale (The Test of Divergent Thinking) was used to assess the correlation between creativity & PBL.
- All four levels of divergent thinking strongly correlated with the creative process (right brain view, progressive skills, Divergent) are measured along with a left brain view, sequential synthesis ("left brain verbal skills" thinking)."
- The four scales were obtained including Fluency, Flexibility, Originality, Elaboration and Tone.

## The Test of Divergent Thinking

- The test of divergent thinking was developed by Frank Williams in 1991.
- Divergent Thinking Factors;** According to Trevis (2001):
  - Fluency: the ability to form ideas along a line of thought (Facal)
  - Flexibility: variation in ideas (using Fluency, Synthesis, Verbal Skills)
  - Originality: not blocked by culture (view and create the un-awaited)
  - Elaboration: expanding on a single idea to create others (Aspirational)
  - Tone: vocabulary skills and creative language by vocabulary usage

## Research Design, Participants & Data Collection

### 21 Third Grade Students

- York Suburban School District
- 12 Female
- 9 Male

**Time Period:** 5 Weeks: 25 minutes per day / 13 days per week

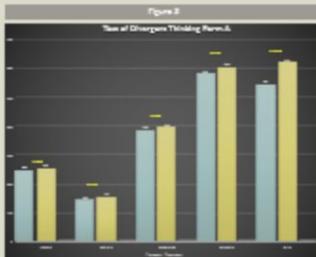
### Data Collection

- A survey on prior knowledge of the water cycle was assessed.
- A one-test using the Frank Williams' Divergent Thinking Scale completed
- PBL was implemented by studying the concept of the Water Cycle.
- Students created a group poster which illustrated all of the curriculum concepts learned over the five week period.
- Students were given a standardized test to assess their understanding of the curriculum.
- A post-test using the Frank Williams' Divergent Thinking Scale was given. Data is shown in figure 3.
- Students' posters were shared with the public.

## PBL & Science

### Connecting PBL to Science:

- The driving question was presented to the class on day 1.
- PBL was used to teach the Water Cycle Unit during the science instructional block.
- The class participated in three levels of experiments: (1) created the cycle of precipitation, evaporation and condensation. During these projects students used group science techniques.
- The flannel and gelatin experiments used materials that are not typically associated for students inquiry.
- The class reflected and critiqued the science experiments through formative assessments and surveys.
- The class set up the group effort and created a poster that answered the driving question of "What does our water look like?" and "How can we make it clean?"



## Blooms Taxonomy & PBL Elements

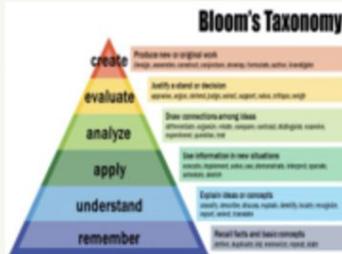


Figure 1: The top three levels of the Bloom's Taxonomy Model were used to reach higher levels of cognition and drive creativity



Figure 2: PBL elements implemented in this project.

## Key Findings & Data Results

- Students' left brain synthesis of data (clever use of language and vocabulary) increased the most by 14.22 %
- Right brain verbal creative skills combined (Fluency, Flexibility, Elaboration and Originality) increased by 3.74 %
- In only a five week period, creator/innovator increased by a total of 4.6% after implementing PBL.
- According to the surveys, 100 percent of the students reported doing PBL than a traditional instructional method

## Implication

- Project Based Learning: Increased creativity in only a short five week span.
- The effects of PBL should be assessed over a longer period of time.
- By engaging in divergent thinking, students learned skills such as teamwork, collaboration and communication that impacted PBL.
- PBL is a method that can be used to engage students at higher levels of cognition by reaching the top four Bloom's Taxonomy levels.

## Common Core Standards

- 2.2.2.14 Connect the various forms of geographic data to the location in a place and time.
- 2.4.2.10 Explain how resources are natural or human-made (e.g. climate, natural resources).
- 2.A.1.15 Identify whether a system is natural or human-made (e.g. climate, natural resources).
- 2.A.1.22 Use models to make observations to explain how systems work.
- 2.A.1.23 Use appropriate simple modeling tools and techniques to describe or illustrate a system.
- 2.A.1.24 Identify and describe observable patterns (e.g. growth patterns in plants, weather, water level).
- 2.A.1.25 Identify systems and describe relationships among parts of a familiar system.

## References

- Buszta, C. E. (2019). *Project Based Learning in Science: An Exercise in Divergent Thinking*. Millersville University.
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# TENTATIVE TIMETABLE FOR PDS STUDENTS

## THIS SPRING

- ✘ Orientation - Top Three Sites
- ✘ Late March - Interview Invitations Sent via Email
- ✘ Early April - Interviews
- ✘ Late April - Placement Notification
- ✘ Early May - Connect with Mentor

## NEXT FALL

- ✘ Tuesday, August 25th, 2026 - PDS Orientation



# Next steps! Complete PDS Form\*

Fill Out the [PDS Form](#) located on the EMEE Homepage under Professional Development School

\*Must be logged into Outlook 365 to respond (due **February 25th**)

This form should take about 5 minutes to complete. Some of the questions on the form...

- ✘ Confirm that you are in Professional Block II in Fall 2026 /Student Teaching Spring 2027
- ✘ *My top three districts...*
- ✘ *Special considerations...*

*Note: Teachers know their own kids and classrooms. **Teacher** interview feedback will be used to determine who is a “good fit” for their classroom.*

ERCH PDS - Professional Block II  
(Fall 2026) then Student Teaching  
(Spring 2027)



