

The Transformative Power of Data-Driven Strategies

A Case Study of Two Wisconsin Middle Schools

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Executive Summary

Throughout 2024, two middle schools in Wisconsin (named North and South in this case study for privacy reasons) transitioned from operational-based structures to those that emphasized the strategic use of data at several levels within each building, including high-quality professional learning and instructional practices. These schools have achieved remarkable improvements by utilizing tools such as Plan-Do-Study-Act (PDSA) cycles, prioritizing student evidence, implementing feedback systems, and consistently reviewing results.

Key initiatives included:

- Strategic abandonment
- Cultivating data-rich Professional Learning Communities (PLCs)/Collaborative Team meetings
- Establishing high-performing teams
- Creating effective feedback cycles

North and South Middle Schools have demonstrated the transformative power of data-driven strategies with dedicated in-person support and collaborative efforts. North Middle School achieved an astounding 200% growth in Reading and 160% in Math, while South Middle School reached 203% in Reading and 167% in Math.

This case study comprehensively outlines the strategies and objectives that drove these successes. We will provide valuable insights and best practices for other schools aiming to enhance instructional practices and student outcomes, empowering them with the knowledge to make a positive change.

Introduction

From 2021 to 2023, North and South Middle Schools have shown varied performance on the WI State Report Card. North's scores were 69.7 (Meets Expectations) in 2020-21, 68.9 (Meets Expectations) in 2021-22, and 70.1 (Exceeds Expectations) in 2022-23. South scored 66.8 (Meets Expectations) in 2020-21, 61.4 (Meets Expectations) in 2021-22, and 55.2 (Meets Few Expectations) in 2022-23.

Additionally, South had 0% growth in Reading and 42% in Math the spring of 2023, while North achieved 75% growth in Reading and 79% in Math. The district contracted with CESA 6 to implement strategic initiatives focused on data-driven practices and high-performing teams.

This case study highlights the substantial growth made in a single school year through intentional practices, building data-rich Professional Learning Communities (PLCs)/Collaborative Team meetings), and valuing evidence.

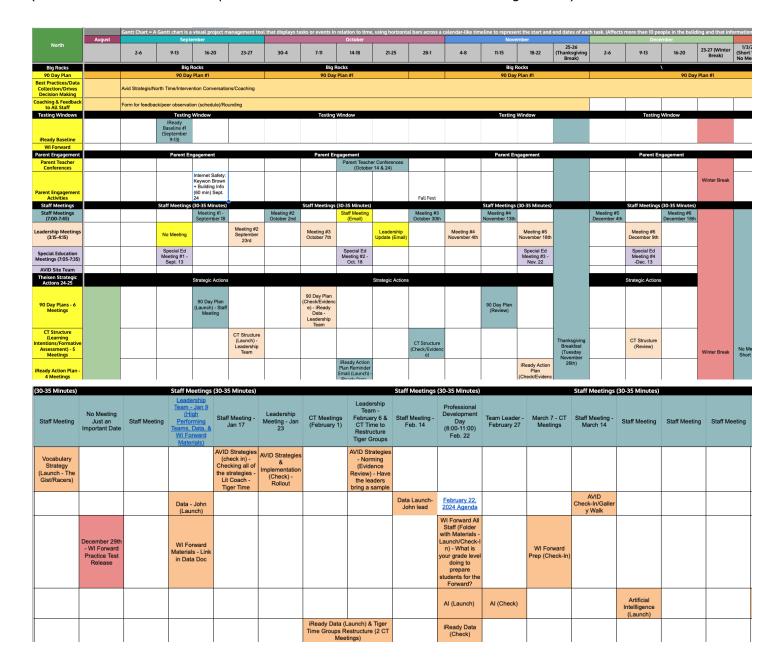
Objectives

CESA 6 met with leaders from both schools to identify key objectives - including dedicating one full day each week for in-person support and structuring high-performing building leadership and administrative team meetings. We emphasized a data-driven and collaborative culture by increasing the use of data during leadership team meetings and conducting thorough reviews of building-wide data, including state report cards and individual student state assessment results.

Effective observation practices were discussed with administrative teams, and consistent feedback cycles (Plus/Deltas, Wonderings, and Parking Lots) were implemented in observations and team meetings to keep staff engaged in a continuous feedback loop.

Additionally, we focused on a rapid-cycle feedback support system (Claim, Evidence, Impact, Questions/Justification), coaching for lesson planning in block classrooms (GANAG Lesson Planning), and creating a consistent feedback loop for academic expectations through staff meetings and PDSA cycles in our PLC/CT meetings.

Bi-weekly consultant and administrative team meetings centered on data and strategic use of a GANTT Chart to outline and share the professional development plan for the school year, ensuring transparency with the staff (GANTT Chart was also developed with North for the 24-25 School Year - Image Below).



Context and Challenges

From: Apr 18, 2024

Starting in November/December, North and South Middle Schools had limited time to embrace/shift to a data-literate culture per the WI Department of Public Instruction. In this data-literate culture, we worked to ensure that educators had access to and could interpret, act on, communicate, and reflect upon a variety of data sources. We ensured access to data using a CESA 6 data dashboard, a review of current iReady data, classroom data, attendance data, and PLC/CT meetings that initially focused on surface-level classroom practices with a gradual progression to deeper conversations on student-specific outcomes and needs.

Professional development throughout the year allowed for implementing PDSA Cycles (both formal and informal structures) in PLCs/CT meetings that helped staff make meaning from their data, whether from their diagnostic assessment, personalized pathway, formative/summative data, or other classroom observations. Expectations were clarified during these meetings through the "Do" Section of the PDSA, as well as dedicated professional development days/staff meetings. Additionally, while North didn't officially use a PDSA cycle, their CT meeting agenda reflected a PDSA model without the official title due to our later start time at North Middle School (December 11, 2024).

Both schools' meetings focused on data use throughout their PDSA Cycles emphasizing iReady data, monitoring bottom quartile students, formative/summative data, and current units of study. Our goal was for 80% of students to pass summative assessments during each cycle, and we increased this likelihood by implementing strategies based on John Hattie's high-effect size instructional practices. When we noticed that students were struggling to meet the goals, we had consistent conversations with them to show our support and dedication to their learning.

Transitioning to this data-driven approach quickly was challenging, but it was also embraced by the administration and consistently revisited throughout our time. For example, following the conclusion of each iReady diagnostic window, we reflected at the administrative and staff level by focusing on an RC2A process (Reflect, Collaborate, Act, and Accountability) to ensure that data was acted upon from the highest of levels to the student level.

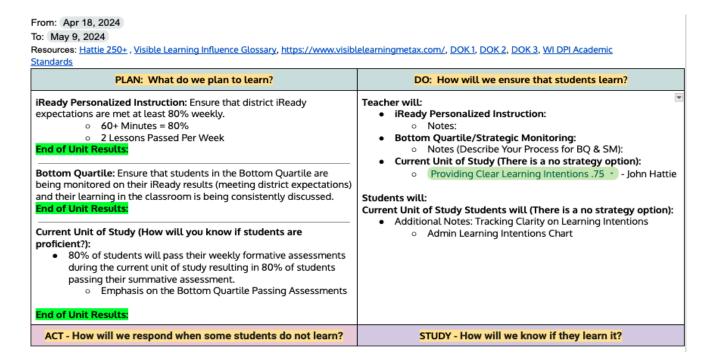
To: May 9, 2024 Resources: Hattie 250+, Visible Learning Influence Glossary, https://www.visiblelearningmetax.com/, DOK 1, DOK 2, DOK 3, WI DPI Academic Standards PLAN: What do we plan to learn? DO: How will we ensure that students learn? Teacher will: iReady Personalized Instruction: Ensure that district iReady expectations are met at least 80% weekly. iReady Personalized Instruction: 60+ Minutes = 80% Notes: 2 Lessons Passed Per Week **Bottom Quartile/Strategic Monitoring:** End of Unit Results: Notes (Describe Your Process for BQ & SM): Current Unit of Study (There is a no strategy option): Bottom Quartile: Ensure that students in the Bottom Quartile are Providing Clear Learning Intentions .75 * - John Hattie being monitored on their iReady results (meeting district expectations) and their learning in the classroom is being consistently discussed. Students will: End of Unit Results: Current Unit of Study Students will (There is a no strategy option): Additional Notes: Tracking Clarity on Learning Intentions Current Unit of Study (How will you know if students are o Admin Learning Intentions Chart proficient?): 80% of students will pass their weekly formative assessments during the current unit of study resulting in 80% of students passing their summative assessment. Emphasis on the Bottom Quartile Passing Assessments End of Unit Results: ACT - How will we respond when some students do not learn? STUDY - How will we know if they learn it?

Strategies and Processes Implemented

1. On-site support for Data-Rich Professional Learning Communities (PLCs)

During the 23-24 school year, PLCs (Collaborative Team Time) underwent significant changes, shifting from a static traditional setting to PDSA cycles focused on achieving 80% passing rates on summative assessments. Weekly meetings followed a consistent template, emphasizing John Hattie's high-effect size practices, evidence-based strategies, and professional sharing.

Each cycle included a "Do" section for teacher actions, a "Student Do" Section for expected outcomes, a "Study" section for analyzing various data points, and an "Act" section for the next steps. This approach to PLC time cultivated goal-oriented discussions and improved student learning outcomes.



2. Establishing High-Performing Teams

The development of high-performing teams began at the first meeting where we discussed the purpose and role of each team within the building. While we didn't always change the team, we did intentionally work on shifting agendas to focus more on strategic work instead of operational items.

Collaboration and continuous improvement were fostered by reviewing the frequency with which teams met and reflecting on the agenda items being discussed. As part of our work in meetings, we implemented various feedback loops to get feedback from the staff, including plus/deltas, wonderings, and parking lots - which increased engagement. Through the course of the year, we also worked on the development of agendas to ensure that more items were strategic than operational.

After our time, it led to North Middle School even revamping its process and team for the upcoming school year to ensure that strategic items were focused on consistently.

Meeting Ager	ida Folillat			
		Operational (N	lo Discussion)	
		Strai	tegic	
		Stra	tegic	
Time	Topic	Guiding Ques	stion & Notes	Next Steps
		Guiding Question		Next Steps:
Plus Delta	Chart Template			
	Plus +			Delta 🔺

3. Creating Feedback Loops

Mastine Assada Comot

Feedback in education is crucial. By implementing structures that collect student data through CT meeting agendas focused on operational work vs. strategic work and PDSA Cycles, we created a system where we valued evidence of student learning during these meetings every week.

Beyond the PLC/CT meetings, we also made other shifts throughout the school year, including but not limited to GANAG-organized staff meetings, additional application time on topics, and an ensured understanding that topics were not one-and-done professional development by the strategic implementation of a GANTT Chart and the Rule of 3 for coming back to topics.

The processes and systems that were in place refined our approaches, provided greater clarity to staff, and put our teams in a place to be more proactive than reactive throughout the school year.

Name: <u>All Staff Feedback</u> Date: <u>January 4, 2024</u>
Staff Meeting Presentation Link: <u>WI Forward/Student Motivation</u>

On a Scale of 1-10 how would you rate the productivity of the meeting today?

- 1										
	1	2	3	4	5	6	7	8	9	10
- 1										

27 Forms collected - 248 / 270 collective ave. 9.2 for the productivity of the meeting today.

If you did not turn in a form at the end of the meeting, please give it to today. I will then add your input:-)

when you are complete at some time

Plus (What Went Well)	Delta (What Would You Change)
 I thought the presentation was informative. I like the ideas of the "speech" Thank you. I like the proactive planning Having exposure to WI Forward is helpful - Time to explore Motivation speech ideas Looking at changes to Forward was great Ideas for elevator speech Sharing ideas about how to motivate students for testing Reminder that iReady & Forward are coming up Great idea to get everyone ready to have conversations with students Loved being able to see the new writing prompts Got to see questions and see what we have not taught yet Start to talk test Answered parking lot questions let everyone know where we are at Took a peek at the practice test to see what kids are asked to know. 	 Start the plan for Forward - Need Letters Home etc. Random calling or getting these involved that aren't always Team time or group time to discuss what we can do at a grade level/schoolwide. A little fast paced for talking time, but really enjoyed more of the "meat" we can continue to process. Some/Most of our Q's the students don't learn until Ch9 Can we have an iReady or WI Forward for Dummies Portion? I feel like I have questions on stuff people assume I already know.

4. Strategic Abandonment

Strategic abandonment involves identifying and phasing out ineffective practices to focus on those that positively impact student achievement.

We prioritized a few AVID strategies, emphasizing them through professional development while pausing other initiatives. Bi-weekly admin meetings then concentrated on critical items, avoiding distractions. Resources and time were reallocated to effective strategies, using the Rule of 3 (3 Hours, 3 Days, 3 Weeks, 3 Months) for planning professional learning opportunities.

Team	Team Purpose	Team Members	Alignment to the School Improvement Team	Team Meeting Documentation	Meeting Time	Meeting Frequency	Time in a School Year	Results of Team Check
Collaborative Team Time	Action Planning	Grade Level Team Members	Yes ▼	6th.CT 7th.CT 8th.CT	40 Minutes	1x a Week (ELA & Math Separate)	About 24 Hours	/44
Department Meetings	AVID Strategies, Operational Items, Connect with best practices to support student learrning	Staff Team Memberrs	Partial 🔻	Slideshow	30 Minutes (First Thursday)	1x a Month	4.5 Hours	/44
AVID Best Practices	Best Practices - Example Critical Reading Process -		Yes ▼		3rd Thursday (30 Minutes)	1x a Month		/44
Staff Meeting	90 Day Continuous Improvement Plan/Data Forward as a School	All Staff	Yes ▼	Staff Meeting Agenda	4th Thursday (30 Minutes)	1x a Month	4 1/2 Hours	/44
Grade Level Meetings	- Team to discuss planning and agenda - Avid weekly articles	Grade Level Team Members	Partial 🔻		Rest of the Month on Wednesday	3x a Month		/44
Building Leadership Team	District Items	Team Leaders for 2023-24: 8th Grade/Sceinece, 6th Grade/Social Studies, 7th Grade/CC-Sped, 6th Grade/Encore/PE, 8th Grade/ELA - Instructional Coaches: Literacy Instructional Coach Internal, ELA, Sped., and Math - Administrators:	Yes ▼	Building Leadership Team	2nd and 4th Monday of Every Month (40 Minutes)	2x a Month	12 Hours	/44
Admin Team Meeting	Orient and Focus the work of Middle School	Admin Team	Yes ▼		TBD (60 Minutes)	2x a Month	16 Hours	/44

5. Planning for WI Forward

To prepare for the Wisconsin Forward Exam, we began strategic planning at the start of our time at both North and South Middle Schools. The assessment planning was integrated into our GANTT Chart, ensuring staff had early access to data and resources. We focused on goal setting, elevator speeches, and a growth mindset.

Curriculum and instruction were reviewed to set alignment between the newly revised Forward Blueprints to ensure content wasn't covered at a point past the WI Forward assessment while also avoiding a crash course right before the test, which doesn't allow for information to go from working memory to long-term memory.

Professional development leading up to the WI Forward assessment supported teachers, and the Rule of 3 was used to revisit key initiatives, emphasizing a consistent focus on valuable topics and areas.

Wisconsin Forward/Data One Pager

Proficiency Ranges for the WI Forward

Content Area	Grade		Score	Ranges	
Content Area	Grade	Below Basic	Basic	Proficient	Advanced
	3	330-521	522-569	570-623	624-900
l	4	340-545	546-591	592-649	650-930
English	5	350-563	564-609	610-669	670-940
Language Arts	6	360-571	572-621	622-670	671-950
	7	370-584	585-637	638-696	697-960
	8	380-591	592-651	652-707	708-970
	3	360-516	517-559	560-610	611-760
l	4	405-535	536-587	588-632	633-800
Mathamatica	5	430-573	574-610	611-657	658-830
Mathematics	6	440-581	582-625	626-687	688-870
l	7	450-605	606-646	647-711	712-880
	8	470-619	620-666	667-717	718-890
Eslanca	4	300-446	447-495	496-542	543-725
Science	8	480-652	653-694	695-736	737-945
	4	330-460	461-490	491-536	537-700
Social Studies	8	540-661	662-692	693-733	734-860
	10	645-769	770-804	805-836	837-980

Data Literate Culture (Red - What we have as far as current thoughts on these items):

Ensuring Access to Data -

Making Meaning from Data - Here's What, So What, Now What - Standards Blueprints
Clarifying Expectations for Data Use - Working through CT meetings - Staff Data Meetings
Building Knowledge and Skills to Use Data - Continuing to work through our PDSA Cycles - Staff
Meetings

Leading a Culture of Data Use - Having staff meetings and other meetings where data is present is a start

Standards Blueprint (Shows what standards will be addressed on the WI Forward in 2024):

- 2024 ELA Wisconsin Forward Blueprint
- 2024 Math Wisconsin Forward Blueprint
- 2024 Forward Social Studies Blueprint

Lessons Learned and Best Practices

- Buy-in from district and building administrators was crucial to success, highlighting the need for commitment from all stakeholders.
- Beginning with the CESA 6 data build at the start of our conversations helped support informed decision-making and continuous improvement.
- Shifting from static agendas to PDSA Cycles and strategic discussions fostered more effective and goal-oriented meetings.
- Ongoing professional development enhanced teachers' ability to use data and implement high-effect size instructional practices.
- The work of strategic abandonment allowed the phasing out of less effective practices, which allowed for the reallocation of resources and time where needed.
- Continuous improvement was maintained through feedback loops like Plus/Deltas, Parking Lots, and ongoing conversations around critical topics.
- Utilizing a GANTT Chart provided a transparent, intentional plan for professional development and critical initiatives.

These best practices set a strong foundation for sustained improvement and enhanced student outcomes.

Conclusion

North and South Middle Schools successfully implemented data-driven strategies, including PDSA Cycles (Official and Unofficial), professional development, and effective feedback systems, leading to significant growth in student performance. The concept of strategic abandonment helped phase out "clutter" and ineffective practices, reallocating resources to more impactful strategies.

Strategic planning and preparation for the WI Forward assessment were integrated from the start of our time at both schools. During this preparation, we focused on goal setting, curriculum alignment, and professional development. These efforts helped align a continuous improvement and collaboration culture, utilizing data to refine instructional practices and enhance student outcomes.

Moving forward, implementing the PDSA Cycles at the classroom level while maintaining a data-literate culture would be beneficial to continuing and sustaining these achievements.

To learn how we can help you transform your district or school with data-driven strategies, <u>contact us today</u>.

Addendum: Additional Note Support for 24-25 School Year

Meeting 6.17.24:

Helped North with the beginning of their GANTT Chart and CT Template for the 24-25 School Year.

	August	Gantt Chart = A		visual project m ember	anagement too	l that displays ta	isks or events in	relation to time October	, using horizonta	al bars across a	calendar-like tim		nt the start and mber	end dates of eac	h task. (Affects	more than 10 pe	ople in the build	ling and that info
North	August	2-6	9-13	16-20	23-27	30-4	7-11	14-18	21-25	28-1	4-8	11-15	18-22	25-26 (Thanksgiving Break)	2-6	9-13	16-20	23-27 (Winter Break)
Big Rocks			Big F	Rocks			Big F	Rocks				Big I	Rocks				\	
90 Day Plan			90 Day	Plan #1			90 Day	Plan #1				90 Day	Plan #1				90 Day	Plan #1
est Practices/Data Collection/Drives Decision Making	Avid Strategis/North Time/Intervention Conversationsi/Coaching																	
aching & Feedback to All Staff		Form for feedba	ck/peer observati	on (schedule)/Ro	unding													
Testing Windows			Testing	Window			Testing	Window				Testing	Window			Testing	Window	
iReady Baseline			IReady Baseline #1 (September 9-13)															
WI Forward																		
arent Engagement			Parent Er	gagement			Parent Er	gagement				Parent Er	gagement			Parent Er	ngagement	
Parent Teacher Conferences									er Conferences 14 & 24)									
Parent Engagement Activities				Internet Safety: Keywon Brown + Building Info (60 min) Sept. 24						Fall Fest								Winter Break
Staff Meetings			Staff Meetings	(30-35 Minutes)			Staff Meetings	(30-35 Minutes)				Staff Meetings	(30-35 Minutes)			Staff Meetings	(30-35 Minutes)	
Staff Meetings (7:00-7:45)				Meeting #1 - September 18		Meeting #2 October 2nd		Staff Meeting (Email)		Meeting #3 October 30th		Meeting #4 November 13th			Meeting #5 December 4th		Meeting #6 December 18th	
eadership Meetings (3:15-4:15)			No Meeting		Meeting #2 September 23rd		Meeting #3 October 7th		Leadership Update (Email)		Meeting #4 November 4th		Meeting #5 November 18th			Meeting #6 December 9th		
Special Education feetings (7:05-7:35)			Special Ed Meeting #1 - Sept. 13					Special Ed Meeting #2 - Oct. 18					Special Ed Meeting #3 - Nov. 22			Special Ed Meeting #4 -Dec. 13		
AVID Site Team																		

North CT Agenda 24-25 School Year

North Middle School - Grade Team 6

Quick Links (Purple ELA, Red Math, Green SS, Yellow SS - Move your color as you advance units)

<u>Ur</u>	nit 1	Unit 2				Unit 3			Unit 4				Unit 5						
Unit 6 Unit 7			Unit 8				ι	Jnit 9	Э		Unit 10								

Day	Deliverable	Team Structure
Monday	Each grade team will set weekly learning targets and a plan to share them.	Grade Teams -
Tuesday	Admin Day	Grade Teams -
Wednesday	SS & Science: Formative Assessment Data ELA & Math: iReady data, bottom quartile review, and current unit of study notes.	Course-Alike •
Thursday	Staff will create 2 formative assessments for next week using the checklist ELA, Math, Science, and SS doing the same st	Course-Alike -
Friday	Staff will use this week's data to plan for next week.	Course-Alike -

TUESDAY ADMIN DAY AGENDA LINKS:

9.3.24	9.10.24	9.17.24	9.24.24	10.1.24	10.8.24
10.15.24	10.22.24	10.29.24	11.5.24	11.12.24	11.19.24
11.26.24	12.3.24	12.10.24	12.17.24	1.7.25	1.14.25
1.21.24	1.28.25	2.4.25	2.11.25	2.18.25	2.25.25
3.4.25	3.11.25	3.18.25	3.25.25	4.1.25	4.8.25

П	N	IT	1
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UNII 1										
Monday I	Deliverable	:: Each grad	le team will	set weekly	learning tai	rgets and a	plan to shar	e them.		
Priority Stand	dard this W	eek:								
	er Clarity A		n Plans - <u>GA</u>	NAG Outlin	<u>e</u>					
Teacher Plans: • ELA, Math, Social Studies, Science (Link Plans)										
Prompt Clea ChatGPT for	•		•	•	ational obje	ective befo	re prompti	ng		
Tuesday D	eliverable	: ADMIN DA	Y (grade tea	m) - CLICK I	INKS TO M	EETINGS AT	TOP OF DO	CUMENT		
Wednesd	ay Delive	rable: iRead	dy data, bot	tom quartile	e review, an	d current ur	nit of study	notes.		
	S	S & Scienc	ce Commo	n Formati	ve Assessi	ment Data				
Step #1: Ent				ommon Fo	rmative As	ssessment	(Add all stu	udents		
Subject	FA Resul	ts Week 1	FA Result	ts Week 2	FA Result	ts Week 3	FA Result	s Week 4		
Social Studies										
Science										
Step #2: Pla	an reteach	ing/next st	eps/assess	ment deve	elopment f	or next wee	ek			
	ELA 8	Math Wed	lnesday - iF	Ready Data	BQ, Curre	nt Unit of S	tudy			
Time/Topic			Guiding Qu	estion, Note	es, & Next St	eps - IREAD	ŊΥ			
	Ensure that district iReady expectations are met at least 80% weekly. 60+ Minutes = 80% 2 Lessons Passed Per Week									