



Transforming Teaching and Learning in Elementary and Secondary Classrooms

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Fourth Year - Neenah Joint School District

Eighth year in position

14th year in education

Secondary Business Education Teacher

Matt Anderson

Director of Instructional Technology
@damakaba



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Transforming Teaching and Learning in Elementary and Secondary Classrooms

*Elementary classroom teacher for 20 years

*First year as administrator

Amy Schumacher

Principal, Clayton Elementary
@AmyLSchumacher

Transforming Teaching and Learning in Elementary and Secondary Classrooms

*Middle school classroom teacher for 4 years

*Second year in Neenah, WI

Doug Beattie

*6th, 7th, & 8th Grade Mathematics Teacher

@NJSDshattuck



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Objectives

- Who is Neenah Joint School District
- Information Access (IT resources)
- Teaching and Learning in an Elementary Classroom
- Teaching in Learning in a Secondary Classroom
- Questions

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Who is Neenah Joint School District?

- Located in Fox Valley area of Wisconsin
- Approx. population of 25,600 / Median income of \$54,250
- Major employers: Kimberly-Clark, Plexus, Bemis, Theda Clark, Neenah Foundry, Bergstrom Automotive, NJSD
- “Suburban” District of approx. 6,400 students
- One high school, two middle schools, nine elementary schools, one early learning center, alternative high school



Mission Statement

Neenah with Pride ignited by a passion for excellence.

Vision Statement

All Rockets will embrace their futures with confidence.



Student Access to Information

- Student devices
 - Grades 6-12 - 1:1 Chromebooks
 - iPads
 - Grades 3-5 - 1:1
 - Grades 1-2 - 1:2
 - PK - Kindergarten 1:4



"It's not about the stuff"

Student Access to Information



- Classroom learning technology
 - Curriculum based desktop/laptop labs
 - Tech Ed. (PLTW), Business (MS Office), etc.
 - LMC general purpose labs
 - SMART Board /Projector in every classroom
 - Document Camera in every classroom
 - Robust Wireless network
 - 10 GB Internet, 20GB backbone, 80GB dual core switches

Foundational Systems



- Student Information System - *Infinite Campus*
- Productivity Software - *G-Suite*
- email - *Gmail*
- Learning Management System - *Schoology*
- Data Warehouse - *eduCLIMBER*



Education technology in the 1960's



What do you think teaching and learning should look like in 2018?

What do you think teaching and learning should look like in 2024?

2018 - Seniors	2022 - 8th Grade	2025 - 5th Grade
2019 - Juniors	2023 - 7th Grade	2026 - 4th Grade
2020 - Soph	2024 - 6th Grade	2027 - 3rd Grade
2021 - Frosh		2028 - 2nd Grade
		2029 - 1st Grade
		2030 - K
		2031 - PK



The world of the class of 2018



- World's Largest Taxi companies owns no taxis (Uber, Lyft)
- Largest accommodation provider owns no real estate (Airbnb)
- Largest phone companies have no telecom infrastructure (Skype, Google Hangouts)
- World's most valuable retailer has no warehouses of inventory (Alibaba)
- Most popular media owner creates no content (Facebook)
- Fastest growing bank has no actual money (SocietyOne)
- World's largest movie house owns no cinemas (Netflix)
- Largest software vendors don't write the apps (Apple & Google)

Elementary Education in the 1980's . . .

- Direct instruction
- Workbooks
- Round robin reading/Basal



Who am I?

- ❖ Curious
- ❖ Inquisitive
- ❖ A risk taker
- ❖ Always searching for innovative methods
- ❖ Lifelong learner
- ❖ Desire to be inspired



How can we grow successful learners?



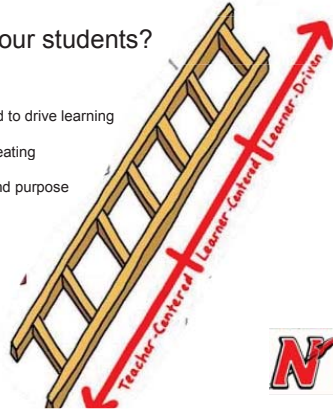
Student ownership means:

- students become the driving force in their own education,
- they make decisions about their own learning,
- they set their own learning goals and work hard to achieve them,
- are actively engaged,
- reflect on their learning,
- assume responsibility for their own learning



How can we engage and inspire our students?

- Intrinsically motivated to drive learning
- Enjoys designing and creating
- Finds and pursues passion and purpose
- Learn from others, teach others
- Inquiry and exploration
- Building relationships
- Takes responsibility for learning
- Compliance: Sit and Get



What does this mean for today's teachers?

We are not changing the “what” but the “how”



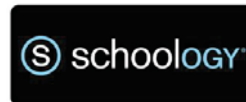
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What did personalized learning framework look like in my 3rd grade classroom?



Self paced learning



Student Completion				
Click values for items you will be interested				
Set Student Completion Rules	Requires	View the Item	Sequential order	
		Post a comment/Reply	Make a Submission	Score at least
For 5-1 Exit Slip	member must			0 / 100
For 5-2 Exit Slip	member must	Score at least	0	100
For 5-3 Exit Slip	member must	Score at least	0	100
For 5-4 Exit Slip	member must	Score at least	0	100
For 5-5 Exit Slip	member must	Score at least	0	100
For 5-6 Exit Slip	member must	Score at least	0	100
For 5-7 Exit Slip	member must	Score at least	0	100
For 5-8 Exit Slip	member must	Score at least	0	100



Our LMS made this process simple



What was the impact on student learning?

"Mrs. Schumacher, I LOVE math now!"

[Student video](#)

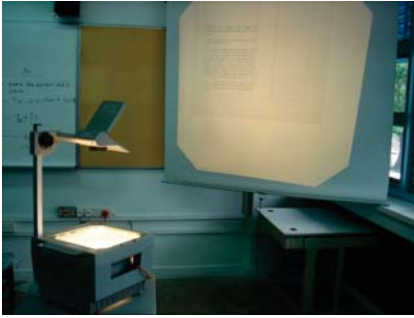
Students need to be involved in success conversations.



High School Experience (2005-2009)



My Math Experience



College Experience (2009-2017)

Undergraduate Teacher Preparation

- In the age of a **TECHNOLOGY BOOM**, one technology class about technology integration
 - Sparked Curiosity
- Mathematics in a Digital Space



Graduate Leadership Preparation

- **WHY** behind technology integration
- It is not a **SUBSTITUTE** to great teaching and learning, but an **ENHANCEMENT**
- Student engagement sparked through exploration and curiosity
- Personalized Learning



My **“WHY”** as a secondary math teacher

- Confidence in the ability to take risks and try something different
- A changing world calls for a change in student's learning environment
- Engagement driven by curiosity and motivation



Transforming Mathematics with Technology Integration

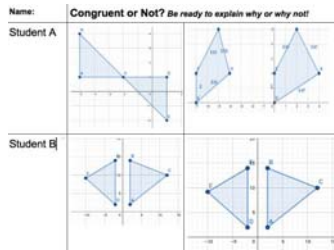
- *“We don't need students to calculate quickly in math. We need students who can ask good questions, map out pathways, reason about complex solutions, and communicate in different forms”*

-Jo Boaler

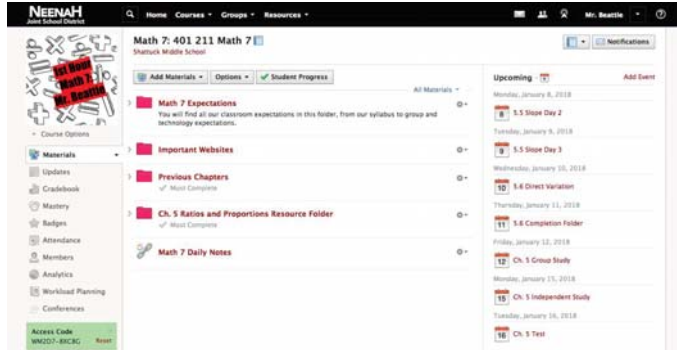


Schoology Supports Tech Integration

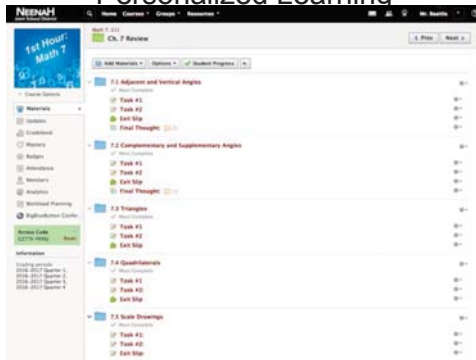
- Inquiry Based Learning Made Easy
- Students SEEK information compared to receiving information
- Question and make sense of the mathematical world
- Exceed Content Expectations through Exploration



One Stop Shop for Students and Families



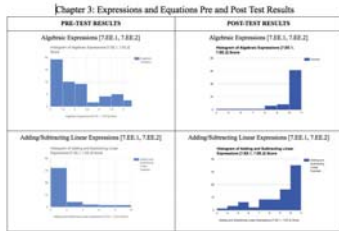
Personalized Learning



Student Engagement



Assessment and Data Collection



21st Century Learning Environment



Teaching and Learning in
Elementary & Secondary
Classrooms

QUESTIONS?

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