

# Personalized Learning: A U.S. Perspective

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#### Schlechty's Levels of Student Engagement

Authentic Engagement	Students are immersed in work that has clear meaning and immediate value to them.	High Attention	High Commitment
Ritual Compliance	The work has little or no immediate meaning to students, but there are extrinsic outcomes of value that keep them engaged.	High Attention	Low Commitment
Passive Compliance	Students see little or no meaning in the assigned work but expend effort merely to avoid negative consequences.	Low Attention	Low Commitment
Retreatism	Students are disengaged from assigned work and make no attempt to comply but are not disruptive to the learning of others.	No Attention	Low Commitment
Rebellion	Students refuse to do the assigned task, act disruptive, and attempt to substitute alternative activities.	Diverted Attention	No Commitment

Schlechty, 1990



# Think of a time when you were deeply *engaged* in learning.





# Think of a time when you were deeply *engaged* in learning.

# What conditions were in place?



#### Samantha





Anthony





#### Jacob







#### Amelia







#### Casey







#### Engagement is linked to

- **Purpose** (what I am doing matters)
- Sense of control (I have choice in what I do)
- **Constructive emotions** (I feel good about my work)
- Self-efficacy (I believe I have the skills to succeed)



#### **Zone of Proximal Development**











#### **Zone of Proximal Development**

#### Capable Guidance

What the learner can do, without assistance More capable others (e.g., teacher, family member, peer)

Scaffolding (e.g., prompting, open-ended questioning, modeling)

Educational technology (e.g., Adaptive maths, Rosetta Stone)

Vygotsky, 1978



#### **Historic Assumptions about Schooling**



**Space:** Learning occurs within the school building. Enclosed, single-use spaces connected by long hallways designed to move students rapidly between bell periods.



**Time:** Learning occurs between the hours of the school day. Learning takes the same amount of time regardless of subject, objective or activity.



**Grouping:** Age defines pace. Students grouped by chronological age are expected to learn at the same rate.



**Teacher Role:** Teachers are directors. Teachers determine how students will learn and demonstrate understanding of curriculum.



Student Role: Students are recipients. Students receive instruction.

#### Historically...



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#### But what if...



#### But what if...



We valued learning that happened anywhere and anytime? Physical spaces were flexible and aligned with the task? Timetables were based on the task at hand?



Teachers truly got to know *each* student's strengths, needs and interests? Teachers worked in teams, with differentiated roles and shared resources?



Students moved between and among groups, based on interests, needs, strengths, levels of challenge?



Students had time for independent learning that aligned with their zones of proximal development?



Students progressed at the pace they required?

Students were co-designers and collaborators with teachers?



#### What if...

# learning was *personal*?





#### **Making Learning Personal**

#### **Personalized Learning:**

"tailoring learning for each student's strengths, needs and interests—

including enabling student voice and choice in what, how, when and where they learn-

to provide flexibility and supports to ensure mastery at the highest standards possible."

Natalie Slocum, Aurora Institute

#### Three Elements:

- 1) addressing an individual's needs, skills and interests
- 2) offering a variety of learning pathways
- 3) assessing learning based on students' proficiency

Personalization	Differentiation	Individualization
The Learner	The Teacher	The Teacher
Drives their learning	Instructs groups of learners	Accommodates individual learning needs
Participates in design of learning	Designs instruction based on needs of groups of learners	Customizes instruction based on individual learning needs
Identifies goals and benchmarks with guidance from teacher	Identifies same objectives for different groups of learners	Identifies specific objectives for those who receive 1:1 support
Demonstrates mastery of content	Monitors learning based on seat time and grade level	Monitors learning based on seat time and grade level
Learns to monitor progress and reflect on learning based on data, assessment and mastery of content and skills	Uses data and assessment to modify instructions for groups and provide feedback to individuals	Uses data and assessment to measure progress and inform next steps for individual learner



#### Personalized Learning: What the Research Says



Shemshack, A., & Spector, J.M. (2020). A systematic literature review of personalized learning terms. Smart Learning Environments 7(33).



#### **Challenging to Measure**

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- Varied definitions
- Poorly aligned outcome measures
- Varied implementation
- Lack of fidelity

#### **Demonstrates Promise**

- Greater gains in reading, math, cognitive and problem-solving skills
- Positive effects on interpersonal and intrapersonal outcomes
- Higher student motivation, sense of belonging and connectedness to school
- Higher-than-average post-secondary participation, graduation and persistence rates

#### More is Needed

- Which practices are most effective?
- What policies are necessary to maximize the benefits?
- How do schools and systems transition to personalized models?
- Are certain elements more important at key transformational stages?

Bill & Melinda Gates Foundation, 2014; Friedlaender et al., 2014; Pane et al., 2015, 2017; RAND Corporation, 2014; Solberg et al., 2014; Zeiser et al., 2014; Zimmerman & Kuhlmann, 2019

2. Flexible

**Pathways** 

3. Proficiency-Based

**Assessment** 

#### 1. Personalized Learning Plans

Provide window into student identities	Invite learning of personal and social significance	Honor authentic evidence
Position student as director	Promote powerful pedagogies	Remove seat time as measure
Offer framework for goals and action	Welcome a variety of collaborators	Provide new language for learning
Create platform for engaging families	Value anywhere/anytime learning	Emphasize transferable skills
Know students well	Foster deep engagement	Value student learning

# 1. Personalized Learning Plans

Provide window into student identities

Position student as director

Offer framework for goals and action

Create platform for engaging families

Know students well



#### Main Street Middle School



**Peoples Academy** 



#### Crossett Brook Middle School



#### 2. Flexible Pathways

Invite learning of personal and social significance

Promote powerful pedagogies

Welcome a variety of collaborators

Value anywhere/anytime learning

Foster deep engagement



#### Flood Brook Union School

#### **Co-designing Learning of Personal and Social Significance**

#### **Questions about Myself**

What is my purpose in life? Would I be alive if my mom hadn't met my dad? Why do I have a fear of heights? Why are my dreams so wacky? What is my ancestry? Will I always stay the same person? Why do I have depression? Why does food taste so good? Why am I the height I am? Why do I like my favorite color? Is there anyone in the world who looks like me? Why do I love reptiles? Why am I a morning person? Why do I need glasses? Why did I shave half my head? Why can I never finish an assignment on time?

#### **Questions about the World**

Why do species go extinct? Does time repeat? When will the sun explode? How will technology advance? Will sicknesses ever be cured or evolve? What will happen with global warming? Why do people think it's ok to eat other animals? What is it like to be someone else? How will politics change? Will we ever find other life forms? What happens after we die? How will Earth change in the future? What caused the big bang? If there was one thing on earth everyone could agree on, what would it be? Is anything real?

(Essex Middle School Students)



Williston Central School

#### 3. Proficiency-Based Assessment

Honor authentic evidence

Remove seat time as measure

Provide new language for learning

Emphasize transferable skills

Value student learning

#### Personalized Learning Plans as Anchor: Purposes & Possibilities

Students	Teachers	Families	Community Members
help students explore their identities in a safe and respectful place	learn more about students	provide a broader representation of what their children can do	discover common ground for collaboration
ensure students feel known as individuals	manage idiosyncratic learning pathways	help families stay connected to their child	establish a common language and vision within the community
provide students with a mechanism to know one another better	assess student growth more meaningfully	address parents'/ guardians' concerns or anxieties	value the expertise within the community
allow students more control over their learning	collaborate with colleagues more effectively	provide documentation for school transitions	expand notions of where learning happens

#### Implementing Change

- Shared responsibilities
- Differentiated roles
- Deeper learning
- Flexible grouping
- Flexible scheduling
- Flexible spaces
- Team planning time
- Assessment purposes

#### Managing Change <

- Educator autonomy
- Team schedules
- Team data and resources
- Team spaces
- Staffing and hiring for teams
- Coaching and support for teams
- Data and accountability



TEACHER

Personalized

Learning

SYSTEM

SCHOOL

#### **Catalyzing Change**

- School leader autonomy
- New entry points for educators
- New specializations for educators
- New advancement for educators
- External partnerships
- Community education



## **Rethinking Roles**





#### **Teacher Leader**

- Lead instructional team
- Plan and direct instruction
- Model lessons
- Coach collaborating teachers
- Mentor residents

#### **Collaborating Teacher**

- Lead classroom instruction
- Collaborate with other teachers
- Specialize in one or more content areas
- Hone expertise

#### Support Staffer

- Supervise skill practice
- Provide 1:1 or small group support
- Lead advisory sessions
- Mentor students

#### **Teacher Resident**

- Support and assist other team members
- Learn skills on the job
- Participate in teacher prep program



#### **Rethinking Time**





Margaret Hendry School, Williston Central School



### **Rethinking Space**



Gold Creek School, Margaret Hendry School

#### **Rethinking Curriculum**

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## Harwood Union High School



# THANK YOU

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Blended Learning- enables greater teacher capacity e.g. Station Rotation, Hi-Flex, Blended Learning Real Time Data- more formative assessment enables regular re-grouping, responding to struggling learners Teaming- data informs discussions and interventions New staffing models- new roles Transition back out...

What does a responsive ecosystem look like for PL?

Use following framework to also point out where we struggled Also why the middle grades, which were already team-based, seemed to work best

#### Space

tossing out industrial-era blueprints that emphasized enclosed, single-use spaces connected by long hallways designed to move students rapidly between bell periods

Corridors are being widened to become extensions of the classroom, stairs are turning into seating space, and walls throughout the building are doubling as writing surfaces or displaying Wi-Fi-enabled TV screens.

Typical, single-use rooms like cafeteria and libraries, meanwhile, are being designed to function as hybrid theaters, makerspaces, and media centers.

the factory model school that most of us went to—where you've got similarly sized classrooms marching down either side of the hallway—is not going to support the kind of teaching and learning that they're after,

Truly flexible spaces should also meet the day-to-day needs of educators to create instructional variety—direct instruction, group work, independent work—by quickly altering their environments. Lightweight chairs, beanbags, area rugs, tables of different heights, and even movable or foldable walls can transform alcoves into quiet reading spaces, which can in turn be modified to suit project-based learning or direct instruction.

designated collaboration space, the Innovation Zone, where students conduct individual research, collaborate on group projects, and give presentations.

some outdoor learning environments are simply spaces that facilitate learning—a group of benches, an amphitheater, or a partially covered workspace with amenities like Wi-Fi and supplies. Like classrooms, these outdoor spaces are designated for instruction, presentations, or independent and group work, but they provide a fresh perspective for students who spend most of the school days indoors.

Other outdoor learning spaces are designed to be extensions of the curriculum, and provide opportunities to observe or interact directly with nature.

## What are the answers, challenges, etc.

lessons learned from the challenges of enacting personalized learning in compulsory school classrooms, and

explore the collaborative school cultures that help educators grow and evolve during these changing times. Collective efficacy Shared governance Distributed leadership

Criteria	Questions to Ask	
Expression	Does it foster student expression? Can students personalize the design? Does it easily incorporate multimedia? Can students readily incorporate or link to external evidence?	
Planning and Goal Setting	Does it enable linking plans, goals, and proficiencies? Does it integrate student project planning and management?	
Reflection	Does it support student reflection? Does it promote dialogue, such as commenting features, between the student and other audiences?	Table 3.6 Criteria for digital PLP platforms
Flexibility	Is it flexible? Can students modify the PLP to respond to different audiences? Can students manage with whom their PLP can be shared both within and beyond their school? Can community mentors or family members weigh in on goals or evidence?	
Efficiency	Is it quick and easy to use? Does it meet the daily needs of users? Is it available for students, teachers and families to interact with at any	

#### **Guiding Questions for PLP Design Teams**

Purpose:

What is our purpose(s) for the PLP? Are there primary and secondary purposes? If so, what are they? Who are the main stakeholders?

Audience:

Based on these purposes, who are the audiences?

#### Content:

Based on the purpose and audience, what is required in a PLP? What is optional?

What degree of choice will students have in determining content? How important is consistency of content across settings? Will the content vary by grade level, classrooms or teams? Will all classes contribute to the PLP?

#### Form:

What form will the PLP take?How important is consistency of format across settings?Will the format vary by grade level, classrooms or teams?What degree of choice will students have in determining form?

#### Roles and Responsibilities:

And based on all of this who will take the lead for the team/school/SU2

#### **Autobiographical Map**







Today's Do Now:

**Step 1:** Consider your own identity as it relates to the iceberg model

**Step 2:** Fill in your own iceberg (15 items at least!) - on the back of Friday's note sheet

**Finish Early?** Please grab a few reading minutes



#### CHARACTERISTICS OF FLOW (M. Csikszentmihalyi)

- Complete concentration on the task
- Clarity of goals and reward in mind and immediate feedback
- Transformation of time (speeding up/slowing down)
- Intrinsically rewarding
- Effortlessness and ease
- Balance between challenge and skills
- Actions and awareness are merged, losing self-conscious rumination
- A feeling of control over the task

	8th Grade Science Independent Packet M		
	Name		
	<b>MS-PS4-1</b> Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave		
	<b>MS-PS4-2</b> Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.		
Figure 5.3 Noah Hurlburt's 8th Gr	In this space, write a short explanation (in your own words) that breaks down the proficiencies above.		
	<u>Chrome Music Lab- Take some time to play!</u>		
	Learning Targets	Completion Date	Teacher Feedback
	I can identify and explain the wavelengths that make up the EM Spectrum		
	I can explain and demonstrate how wave frequency and wavelength combine to make up each different wave within the EM Spectrum		
	I can know what the speed of light is, and how this speed is calculated		
	I can identify, explain, and demonstrate how the EM Spectrum is utilized in daily life		
	I can compare, contrast, and explain the similarities between visual light and sound waves		
	I can design and engineer a smartphone amplifier that manipulates sound waves to increase music decibel levels		
	How will I know when I have met the p	roficiency?	