Microsoft

Personalized Learning

What does success look like and how do you get there?

The goal

Personalized Learning is a popular buzzword for a reason. According to the OECD, it has the potential to overcome the socio-economic, time and space limitations of traditional learning.[1] By maximizing educational opportunity through much more motivated, engaging and relevant learning, Personalized Learning can ensure that every student matters.
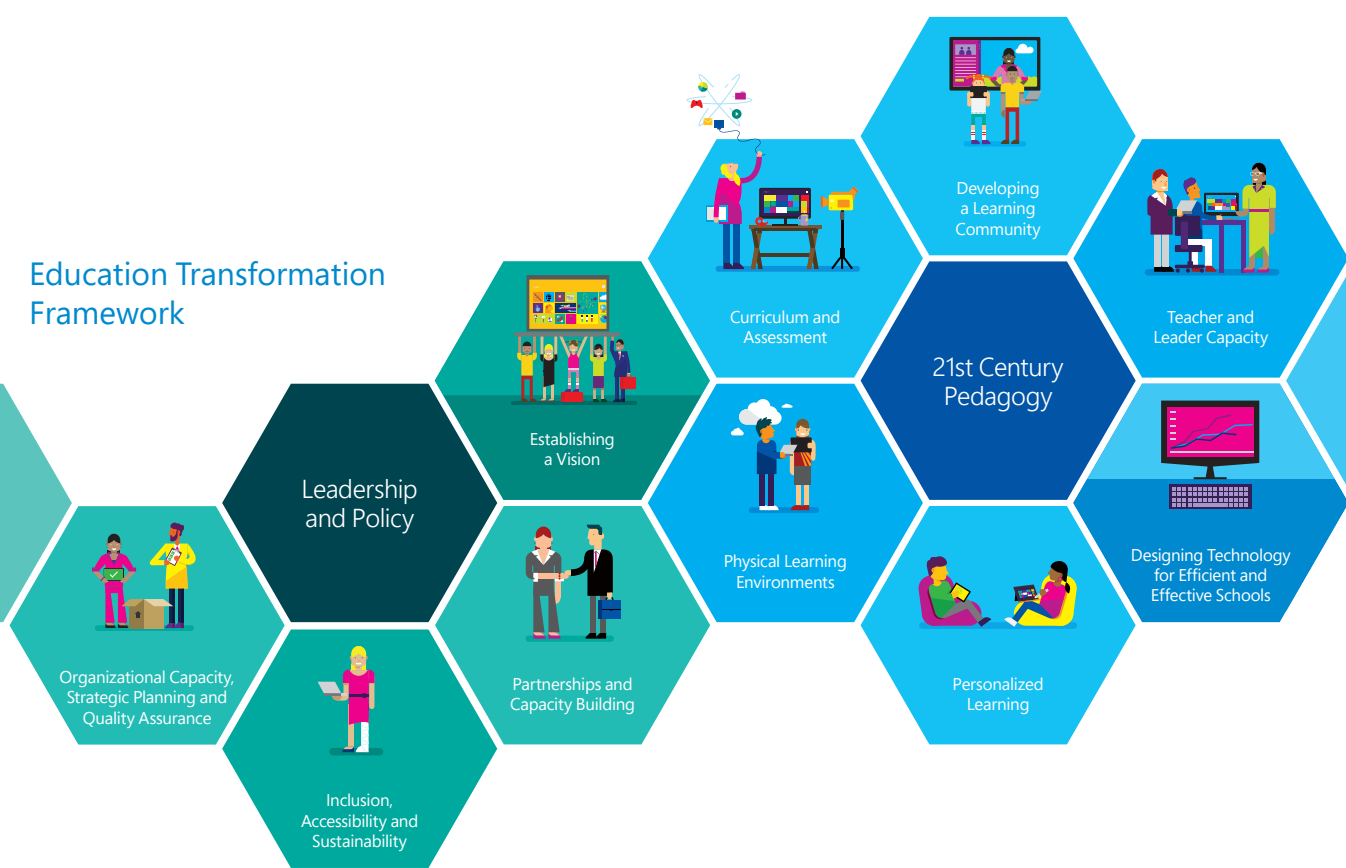
Why now?

Despite its recent surge in discussion, Personalized Learning is neither a new concept nor a radical departure from established education practice. What has changed, however, is that technology is finally making Personalized Learning practical and easy to achieve. Around the world, technology is allowing schools to design customizable learning pathways for students and data-rich feedback cycles for teachers.[2]

What goes into personalized learning?

UNESCO has laid out the twelve key elements of Personalized Learning that can help schools, teachers and students succeed.[3] These include:

- Applied learning inspires creativity, self-reliance, problem-solving, and decision-making in learners[4]

- Participation in the social life of the school is strongly related to self-efficacy, respect for diversity, self-confidence, collaborative skills, avoidance of risk behaviors, and resilience[5]

- Activities that are perceived to be useful in real life and are culturally relevant allow for more authentic learning and better transfer of knowledge[6]

- Learners need to be able to plan and monitor their learning, set their own learning goals and correct errors[7]

- Children learn best when their individual differences are taken into consideration[8]

- Allowing students to choose their own path, or have choice in their learning, motivates their learning.[9]

Education Transformation Framework

Developing a Learning Community

Curriculum and Assessment

Teacher and Leader Capacity

21st Century Pedagogy

Establishing a Vision

Leadership and Policy

Physical Learning Environments

Designing Technology for Efficient and Effective Schools

Organizational Capacity, Strategic Planning and Quality Assurance

Partnerships and Capacity Building

Personalized Learning

Inclusion, Accessibility and Sustainability

Guiding questions

How do learning environments and pedagogy adapt the pace of learning?

How do learner needs, interests, and choices influence the learning experience?

What tools and learning resources are available for students to use in self-directed and self-paced learning?

How are learner engagement and independence enhanced?

Are data and analytics used by schools, teaches, students and families to create learning pathways?

How are students and teachers enabled to become collaborative, creative and productive learners?

Microsoft

How can technology help Personalized Learning?

Schools across the globe are using technology in creative ways to help personalize learning.

- Schools are establishing Personalized Learning environments with Microsoft Individualized Learning services and Analytics solutions

- Teachers are visualizing student data with Microsoft Power BI

- Students are engaging in project-based learning with Minecraft, Kodu Game Lab, Microsoft Mathematics, Equation Editor, FluidMath and the Deeper Learning MOOC.

Resources

Whitepaper: Personalized Learning for Global Citizens

This paper is joint-authored by a team from the Michigan Virtual Learning Institute at MVU: Senior Researcher Kathryn Kennedy, Executive Director Joe Friedhoff and Researcher Kristen DeBruler. It highlights research, leading examples and guiding principles on Personalized Learning.

The complete version is available at **microsoft.com/education/leaders**

Workshops

- Quality Enhancement and Personalized Learning With Analytics
- School Leadership Academies

Additional Support Materials

- Redefining Learning Conference Guide
- 21st Century Professional Learning Conversation Guide

To organize a workshop or for resource materials, contact your Microsoft Education Specialist.

References
1. OECD, (2006). Education at a Glance. Organization for Economic Cooperation and Development, Paris, France.
2. Patrick, S., Kennedy, K., & Powell, A. (2013). Mean what you say: Defining and integrating personalized, blended and competency education. Vienna, VA: iNACOL.
3. Vosniadou, S. (2001). How children learn. UNESCO International Academy of Education, International Bureau of Education.
4. Robinson, K. (2011). Out of our minds: Learning to be creative. Hoboken, NJ: John Wiley & Sons.
5. Billig, S. H. (2000). Research on K-12 school-based service-learning: The evidence builds. Phi Delta Kappan, 81, 658-664.
6. Brown, J. S., Collins, A., & Duguid, P. (1989). Situated cognition and the culture of learning. Educational Researcher, 18(1).
7. Marton, F., & Booth, S. (1997). Learning and awareness. Hillsdale, NJ: Erlbaum.
8. Chen, J., Krechevsky, M., & Viens, J. (1998). Building on children's strengths: The experience of Project Spectrum. New York, Teachers College, Columbia University.
9. Drexler, W. (in press). Personal Learning Environments in K12. In R. Ferdig & K. Kennedy (Eds.), Handbook of Research on K-12 Online and Blended Learning.

microsoft.com/education/leaders ⊙