Making Mixed Reality part of the classroom Joke Palmkvist, Microsoft







Who is Joke Palmkvist?

Global Learning Connection – engage and discuss



Meet other classrooms from across town or across oceans!

November 5-6, 2019

Microsoft Global Learning Connection

OPEN HEARTS. OPEN MINDS.

What is Al?





Lexplore – Swedish innovation

		Lexplore			⑦ KONTAKT
OM OSS	SÅ GÅR DET TILL	LÄRARRUMMET	REFERENSER	BLOGG	DEMO

Så går det till

Medan eleven läser en kort text på en skärm spelas ögonrörelserna in med hjälp av en eye tracker som sitter längst ner på skärmen. Det tar bara några minuter för eleven att läsa texten och svara på de läsförståelsefrågor som kommer. Innan eleven är tillbaka på sin plats i klassrummet har ögonrörelserna analyserats och presenterats i resultatportalen.



"The most profound technologies are those that disappear. They weave themselves into the fabric of everyday life until they are indistinguishable from it."

Mark Weiser

Learning Tools

Built into Office 365 to improve reading and writing



Improve reading skills

Learning Tools help to improve reading skills by assisting decoding, fluency, and comprehension.







Get the Soundscape App >



About Soundscape



- Innovative audio-based technology to enable people, particularly those with blindness or low vision, to build a richer awareness of their surroundings, empowering them with confidence to explore.
- Soundscape uses 3D audio cues to enrich ambient awareness and provide a new way to relate to the environment.

Mixed Reality is Transforming Education

"If you change the way you see the world, you can change the world you see"

Satya Nadella







WHAT IS MIXED REALITY?

PHYSICAL WORLD

DIGITAL WORLD



MIXED REALITY SPECTRUM

PHYSICAL WORLD







AUGM	1ented	REALITY

VIRTUAL REALITY

MIXED REALITY SPECTRUM



MIXED REALITY SPECTRUM

MR Learning Outcomes

- Peer-reviewed research suggests that when AR/MR is used in educational (K-12) settings that:
 - It increases achievement scores, learning efficiency, retention, experiential learning, and engagement
 - Increased spatial awareness, positive emotions, focus, attention, problem-solving, collaboration, confidence and motivation have been reported
 - Users state that they feel increased energy, flow, and that it creates a beneficial learning environment
- Currently, AR/MR has seen testing in science, arts, history, theater, and outdoor education





Mixed Reality

Your real and digital worlds integrated, enhanced with holograms

- Integrates your real and digital worlds seamlessly
- Not constrained by size of 2D, rectangular displays
- Intuitive, natural interactions
- Digital content is wherever
 - you need it



"With HoloLens you could imagine having a class standing around a model almost like a tour group in a museum where they're all interacting completely naturally."

- Mark Griswold, Professor and radiology researcher

What if distance and language didn't matter?



MIXED REALITY



digital ink on deman WHAT & attraction of the attraction of learning culture competencies platform agnostic formative learning communities disruptive connections equity computational thinking student centric authentic outcomes problem based learning stem inclusive citizenship mobile critical thinking design efficiency communication blended self-paced character makerspace empowerment collaboration flipped



Stand and rest – or walk?