Mc Graw Hill Education

Lead with Learning Placing Students at the Heart of the Matter

Because learning changes everything.[™]





Dr. Shawn Mahoney

Chief Academic Officer School Group Twitter: @MahoneySM



Dr. Shanika Hope

Vice President

National Urban Markets





Transform the ordinary into the extraordinary

@Catlin_Tucker 10.29.15

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We believe that our contribution to unlocking our collectively brighter future lies with the application of our deep understanding of *how learning happens* and *how the mind develops*.

It exists where the science of learning meets the art of teaching.



How do we empower student to find information, get excited about learning, and own that moment?

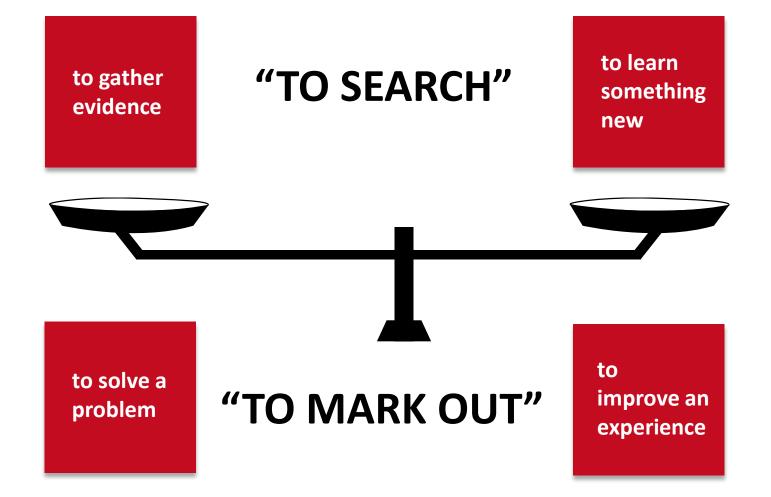
@Catlin_Tucker 10.29.15



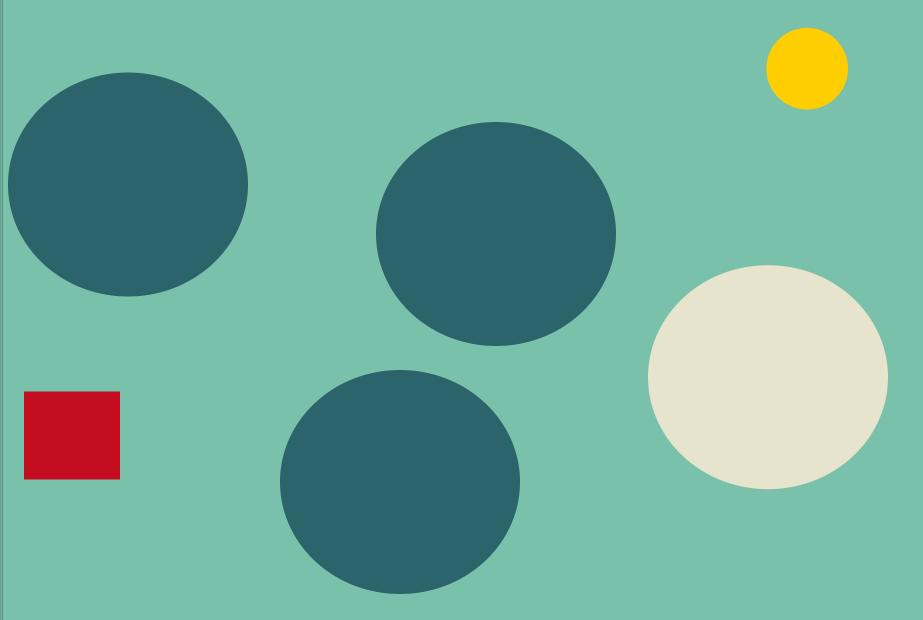
What is the purpose of research?



Introduction: Definition



The Structure of Scientific Revolutions

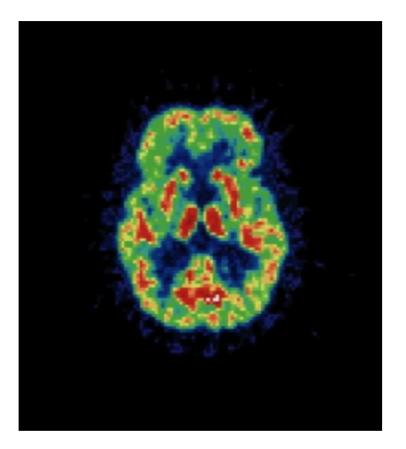


The nature of **LEARNING** is changing. changes everything



Computers have always come with a CD-ROM.

What we know about **LEARNING** is changing.



Neuroscience

The Brain as a Jungle

The brain is an everchanging part of the human body



Intelligence is not fixed at birth.

Experiences wire our brain.

Our job is to design solutions that provide rich learning experiences.



Substitution

Tech acts as a direct tool substitute, with no functional change

A

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Modification

Tech allows significant task redesign R

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

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Equity in the Classroom Leveling the Playing Field through Personalization

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What does EQUITY mean in the classroom?

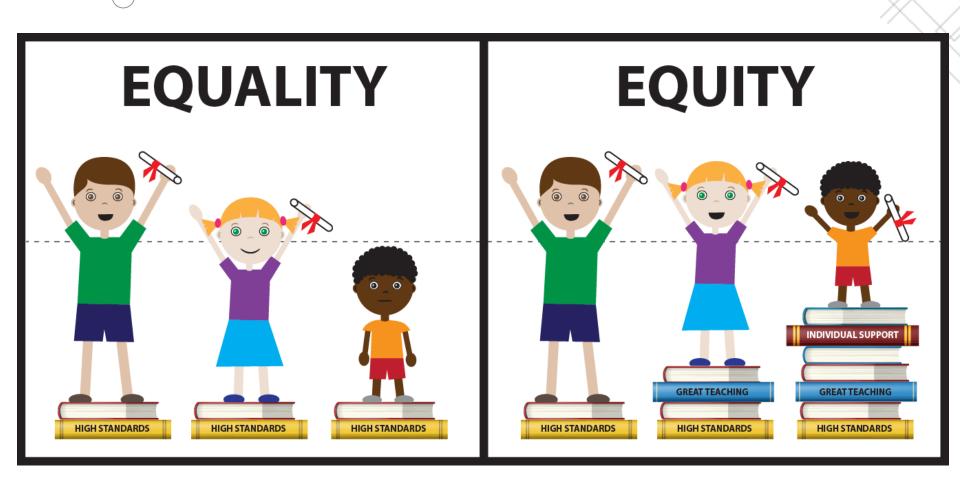




Johnathan

Why not Johnathan?





EQUALITY ≢ EQUITY



High expectations, quality instruction and personalized supports is Equity.

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PERSONALIZATION



Personalization

What comes to mind?



Personalization

Autonit

100900 Hillings Colla dian

STEL



Student Engagement and Co-Design through Choice

> Student-Centered Learning

Multiple Delivery Methods & Modalities

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Who makes the decisions?

How are the decisions made?



Personalization is a simple elegant blending of learner, teacher, and technology informed learning ecosystem.

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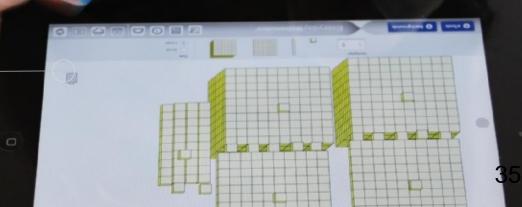
Personalization Power Players

Problem/Project Based Learning

Newsome Park Elementary (Newport News, VA)

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Personalized Learning Plans Minnesota New Country School (Henderson, MN)



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Advisory Metropolitan Arts & Tech High School (San Francisco, CA)

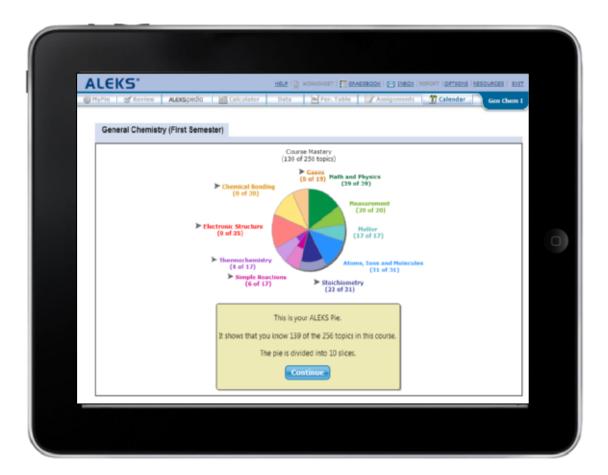


How Technology Supports the Power Players...



Path and Pace

• Systems that adapts to learner needs





Progress: Formative Assessments

• Increasing the frequency of formative assessments





Collaboration

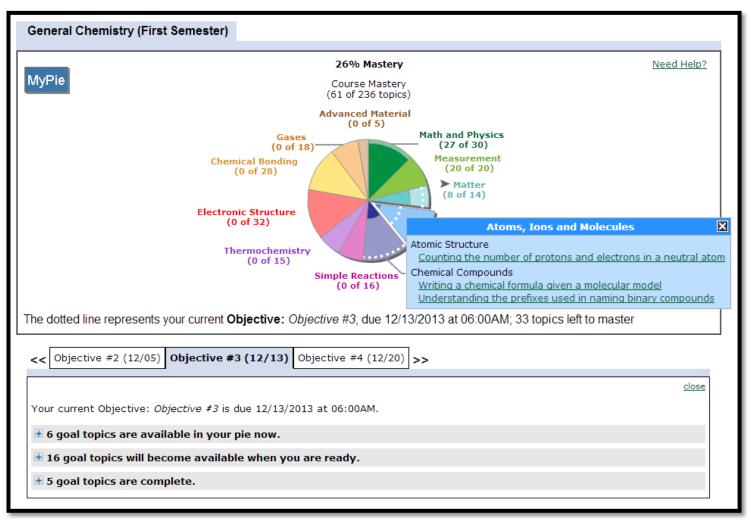
• Approaches that turn learners into collaborators and creators





Just-In-Time Feedback for Students

• Near-real-time feedback to parents/students/teachers:





Just-In-Time Feedback for Teachers

• Customizing instruction based on performance/preference

Students	Scores	Community	Person	al Progress											
Science for Dummies +															Resources
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What does EQUITY mean in the classroom?



We must teach the way students learn, rather than expecting them to learn the way we teach.

~ Pedro Noguera

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Questions?