FIRES IN THE MIND

What Students Can Tell Us About Motivation and Mastery



presented by Kathleen Cushman and the students of What Kids Can Do

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What does MASTERY look like?



· Playing chess



· Speaking a foreign language



· Doing scientific research





EXERCISE 1

Do people get to be experts because they are born with talent? Or do they get there by practice?



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The Practice Project

- Ask youth about their expertise
- Youth ask adults about their expertise
- Think together about expert habits & process
- Transfer to new areas





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Getting Started . Keeping at It



Watching an expert Spark of interest – noticed! Opportunity to explore



Practice with a coach Small successes Meaningful context



Getting Started · Keeping at It

Value x Expectation = Motivation



What makes us keep at it?

 Steady and satisfying work (often with others)

- . The hater or the motivator
- The thrill of competition
- . The sheer fun of it
- The moments you know that you know it

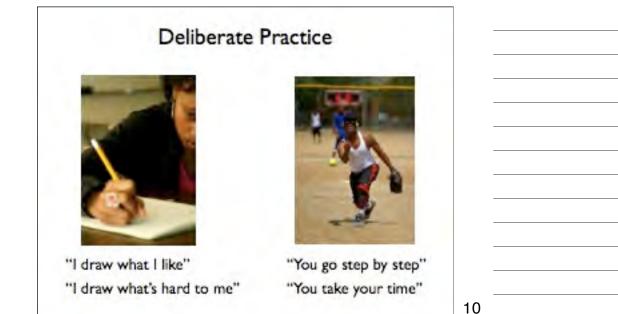


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Not just any practice ... DELIBERATE practice







EXERCISE 2

How would you describe your own process when you are practicing something?



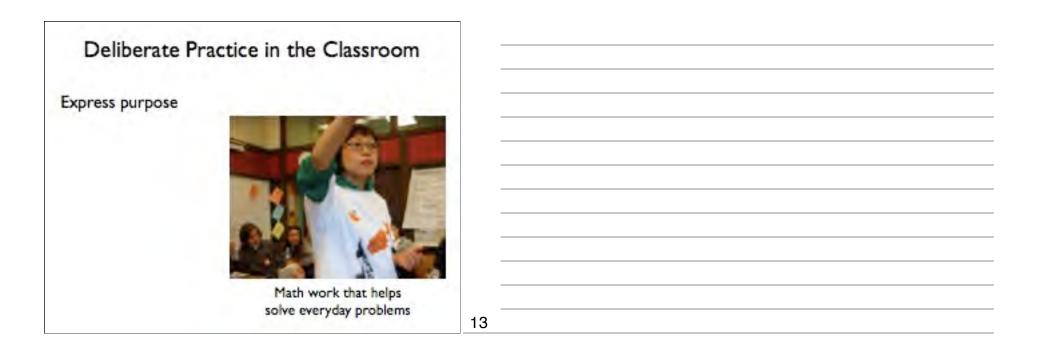
What is Deliberate Practice?

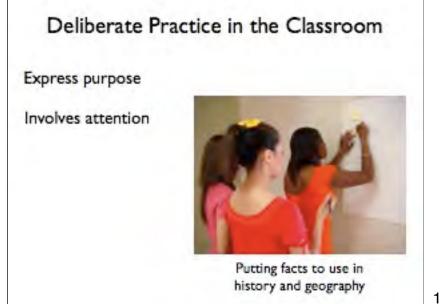
· Has an express purpose

- Involves attention
- · Is geared to the individual
- · Involves rehearsal
- Leads to new knowledge
 & skills ...
- ... that lead to even more complex knowledge & skills



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Deliberate Practice in the Classroom Express purpose Involves attention Geared to the individual Reading and writing that connects to interests and needs 15

Deliberate Practice in the Classroom

Express purpose

Involves attention

Geared to the individual

Involves repetition or rehearsal



present in public

Deliberate Practice in the Classroom

Express purpose

Involves attention

Geared to the individual

Involves repetition or rehearsal

Leads to new knowledge or skills



Always asking what you still don't know

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Deliberate Practice in the Classroom

 Considering different perspectives

Looking for evidence

 Noticing why information matters

 Connecting knowledge to other knowledge

Asking "what if ...?"





Is homework deliberate practice?

Deliberate practice	But with homework	-	
Has an express purpose	We don't know the point	-	
Is geared to the individual	It's the same for everybody	-	
Involves attention and focus	We can do it without thinking	-	
Requires repetition or rehearsal	It's just repeating something	-	
Requires careful timing	We don't have enough time to do it	-	
Leads to new skills	We don't use it for anything	-	
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EXERCISE 3

What are you currently asking your students to practice? How are you asking them to practice it?





What does it take to get really good?

Looking at student strengths

Asking the experts

Value x Expectation = Motivation

Deliberate practice



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Monday, October 25, 2010