



PD towards UMathX Teacher Certification .. ccss

Growth Mindsets with Built-In Differentiation – UMathX in Elementary Mathematics

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Description:

- We will provide “go deep” learning tools to grapple with Elementary Mathematics.
- Grappling is productive struggling. BYOD for “smarter, not harder” online lessons.
- The presenter will model whole-class learning with build-in differentiation.

Model of a “Growth Mindset” ... “TEACH” vs “TELL”

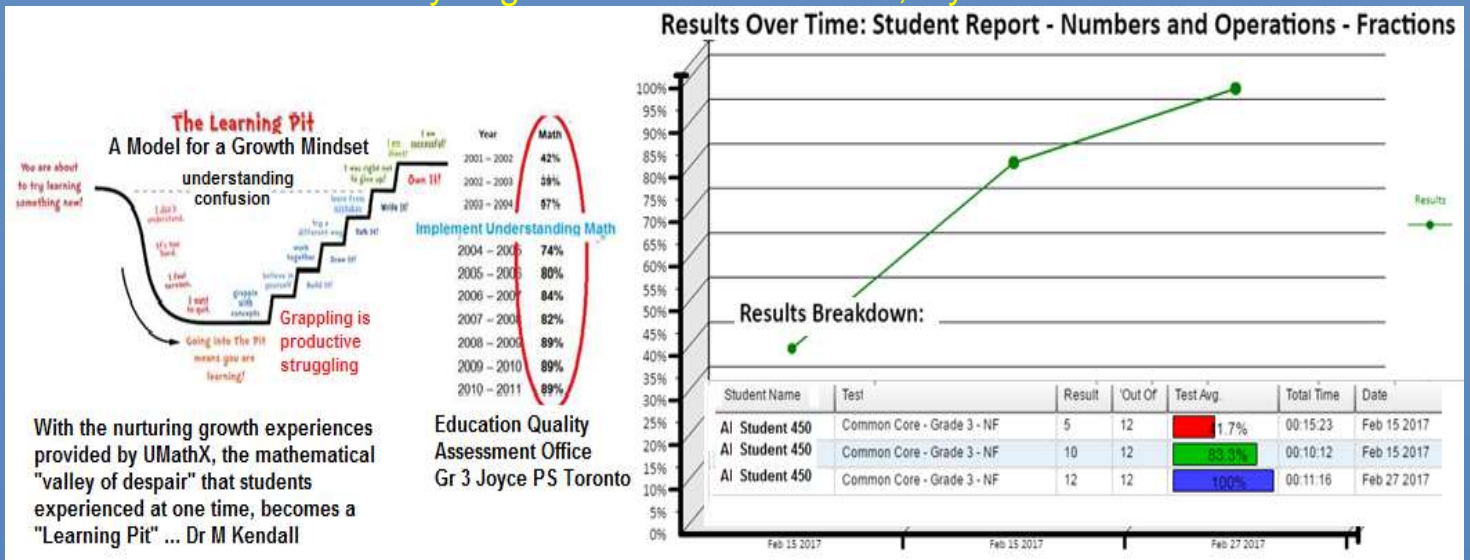
See 10 minute video ... <http://www.jamesnottingham.co.uk/learning-pit/>

Followup ... A Thought Provoking Video about Provoking Thought!

... “EUREKA” is “I FOUND IT!”. You want to SHARE – TALK - REPEAT

... “EUREKA” does NOT mean “My teacher showed me” (I memorized)

... Do you get a sense of EUREKA, if you have not first GRAPPLED?



Introduction to the UMathX Learning Environment

Step 1: see www.UMathX.com

Play .. UMathX – What is it? – The Learning Pit

Play .. UMathX – Navigation / Frameworks / Assessment / Data

Step 2: log in www.UMathX.com/preview

generic login: count

generic password: umathx

Sample Lessons (UMathX Menu and Curriculum Menu)

Operations>12) Add 3 or 4 #>A>Add 3# Vertically // 1.OA.03.06 (also see framework)

Fractions>The Meaning of Fractions>Introduction ...Think, Write, Say>Circles // 3.NF.01.01 (also see tiered frameworks)

Operations>23) Subtract 3 Digit # - Concretely>D>4.Subtraction with Regrouping #3 // 3.NBT.01.02 (also see framework)

Whole # & Int>Mult&Div Whole #>Mult by2 Digit Mult>Partial Prod-Area>Ex1-With Blocks/Ex4 // 4.NBT.02.05 (see framework)

Fractions>Multiplying Fractions>Pattern Blocks>Develop the Rule>Ex 3 // 5.NF.02.04a (tiered framework-proper x proper)

Use Data to Redirect Learning Tests and Personal / Group Bookmarks