



PD towards UMathX Teacher Certification .. TEKS

Growth Mindsets with Built-In Differentiation – UMathX in K to 5 Mathematics

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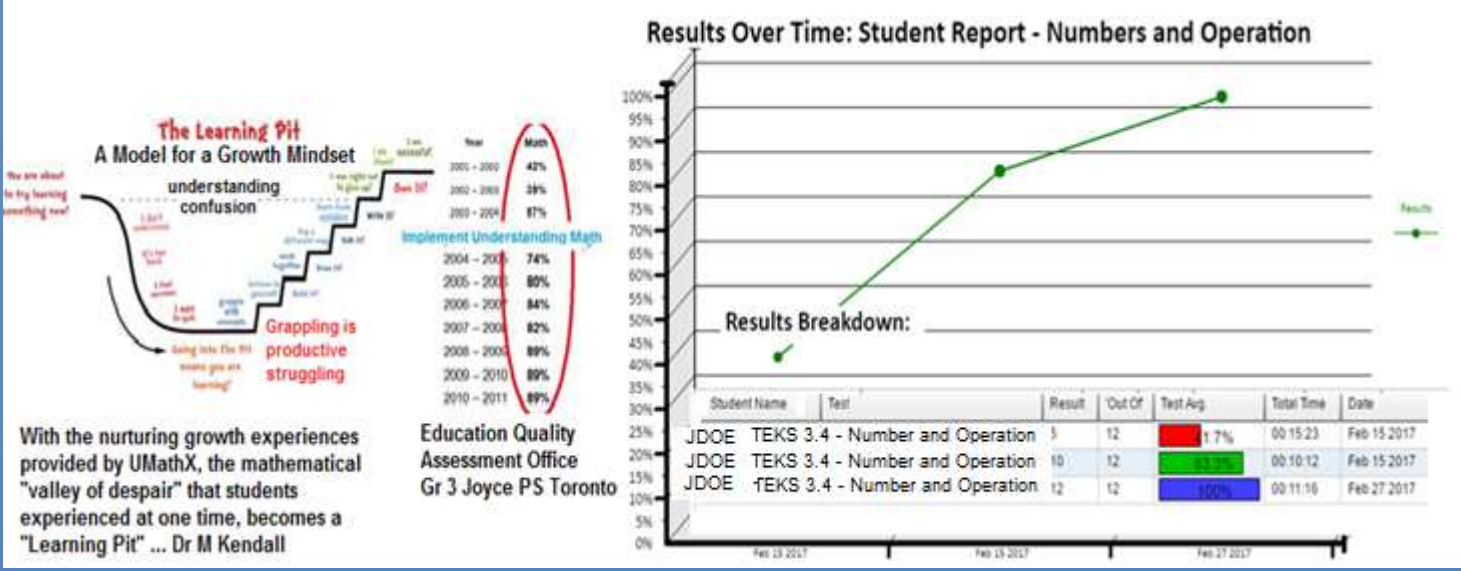
Description:

- 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/texas
 generic login: neufeld
 generic password: umathx

Sample Lessons (UMathX Scaffolded Menu & Curriculum Menu)

- Operations>12) Add 3 or 4 #>A>Add 3# Vertically // 1.3.E.ii (also see framework)
- Fractions>The Meaning of Fractions>Introduction ... Think, Write, Say>Circles // 3.3.C.i (also see tiered frameworks)
- Operations>23) Subtract 3 Digit # - Concretely>D>4.Subtraction with Regrouping #3 // 2.4.B.vii (also see framework)
- Whole # & Int>Mult&Div Whole #>Mult by 2 Digit Mult>Partial Prod-Area>Ex1-With Blocks/Ex4 // 4.4.C.i (see framework)
- Fractions>Multiplying Fractions>Pattern Blocks>Develop the Rule>Ex 3 // 6.3.B.i (tiered framework-proper x proper)

Use Data to Redirect Learning Tests and Personal / Group Bookmarks