



PD towards UMathX Teacher Certification .. OnExpectations

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

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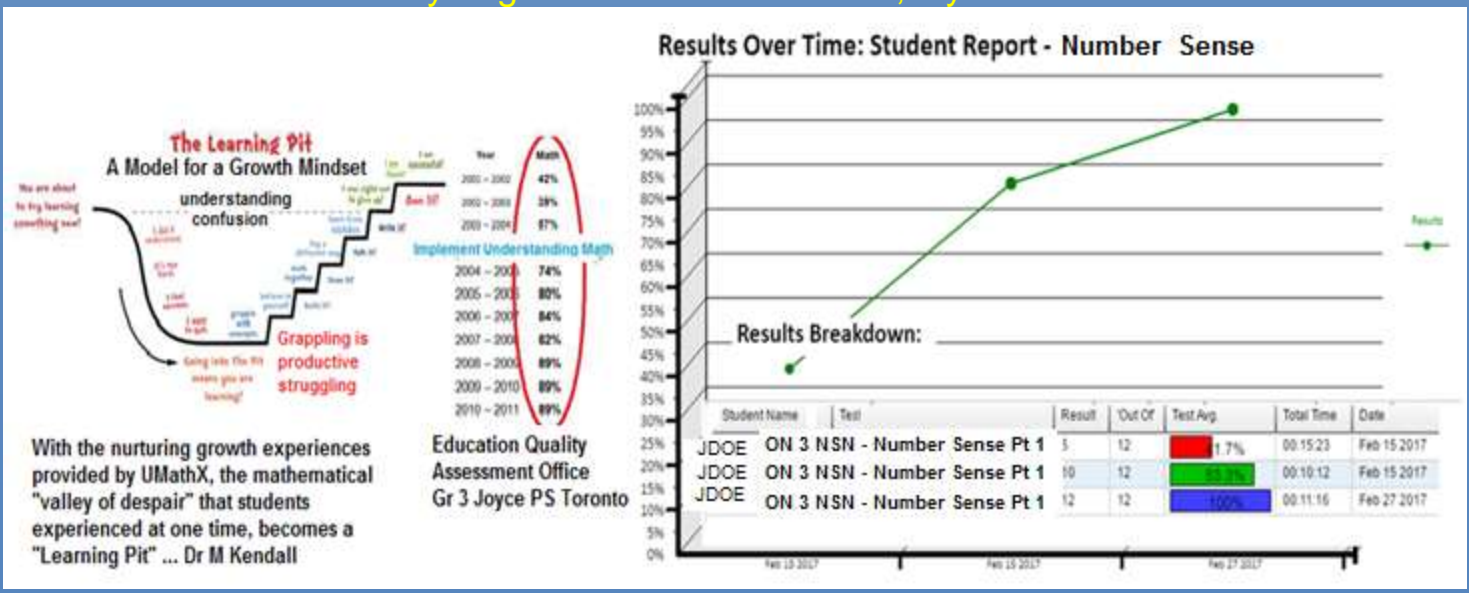
Description:

- 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/preview
 generic login: count
 generic password: umathx

Sample Lessons (UMathX Scaffolded Menu & Curriculum Menu)

- Operations>12) Add 3 or 4 #>A>Add 3# Vertically // K.NSN.03.12 (also see framework)
- Place Value>Whole # & Int>Meaning of Whole#>Represent# in Many Ways // 3.NSN.01.04 (also tiered frameworks)
- Fractions>The Meaning of Fractions>Introduction ...Think, Write, Say>Circles // 4.NSN.01.06 (also see tiered frameworks)
- Operations>23) Subtract 3 Digit # - Concretely>D>4.Subtraction with Regrouping #3 // 3.NSN.03.02 (also see framework)
- Whole # & Int>Mult&Div Whole#>Mult by2Digit Mult>Partial Prod-Area>Ex1-With Blocks/Ex4 // 5.NSN.03.03 (see framework)

Use Data to Redirect Learning Tests and Personal / Group Bookmarks