



PD towards UMathX Teacher Certification .. OnExpectations

Growth Mindsets with Built-In Differentiation – UMathX in Gr 6 to 10 Mathematics

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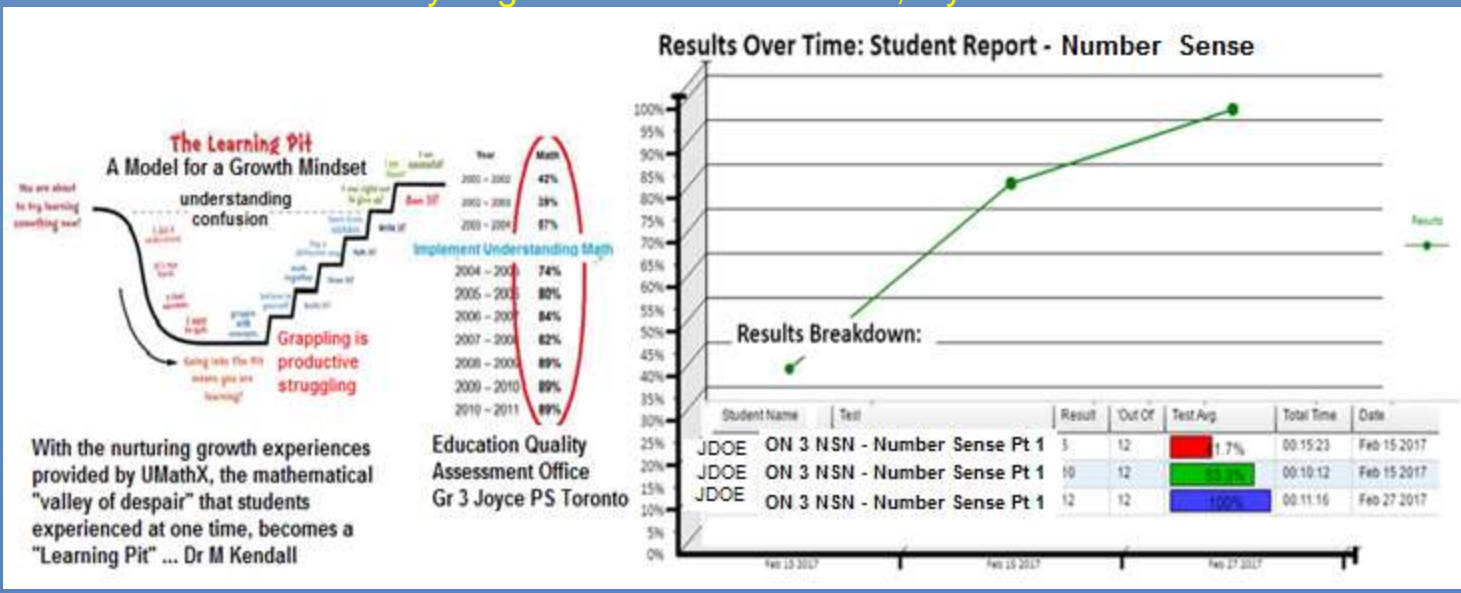
Description:

- We will provide “go deep” learning tools to grapple with Secondary 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)

- Fractions>Multiplying Fractions>Pattern Blocks>Develop the Rule>Ex 3 // 8.NSN.02.04 (tiered framework-proper x proper)
- Measurement>Per&Area Polygons>Area Polygons>Polygons Broken into Shapes // 5.M.01.04 (tiered frameworks)
- Graphing>Reading & Sketching Graphs>Graphs without a Scale>Ex4-Glasses of Water // 8.DMP.02.05 (tiered frameworks)
- Graphing>Equation of Straight Line>Word Problems-Applications>The Walker // MPM2P.MLR.02.06 (tiered frameworks)
- Graphing>Quadratic Functions>Maximize Cage Area>Trial & Error to Summary // MFM2P.QR.03.01 (tiered frameworks)

Use Data to Redirect Learning Tests and Personal / Group Bookmarks