



UMathX Launch - Nurturing 'Growth Mindsets' at PGCPs

PGCPs (K to Algebra1) Initiative - Put us to the Test and Rise Above the Rest!

A. MathX Launch

We announce the launch of v2.0 of **UMathX**, the 10th version of **Understanding Math**, a browser-based, computer-assisted learning system that blends a wide variety of approaches to help students develop deeper understanding of mathematics concepts from **K to Algebra1**. **UMathX** nurtures a **'growth mindset'** through productive struggling, assessments, diagnostics and data analysis. Students "build it", "draw it", "talk it", "write it" and then "OWN IT!"

"**UMathX** has it all... a full service K to Algebra1 learning environment, supporting a **'growth mindset'** within a **"learning pit"** encouraging students and teachers to **'grapple'** with concepts." .. (2016 GESS World Conference)

Stanford Researcher, **Carol Dweck** has linked the concept of **growth mindsets to academic success**. Embrace failure as an opportunity to develop new strategies and approaches to learning challenging concepts.

B. PGCPs Gr 5 UMathX Initiative – 15,176 Lessons & 1,299 Tests – 2015-2016



District Summary May 2016

District Name: Prince Georges Cty Public Schools	Contact Information:
District URL: <input type="text" value="www.umathx.com/pgcps"/>	Total Number of Users:
Number of Licenses: 2052 .. Grade 5 Students	District Lead: <input type="text" value="2"/>
Renewal Date: <input type="text" value="2016-07-01"/>	School Lead: <input type="text" value="3"/>
Status: <input type="text" value="Licence Ended 2016-06-30"/>	Teachers: <input type="text" value="57"/>
	Students: <input type="text" value="2052"/>

Category	Total	1 Week	30 Days	90 Days	6 Months	1 Year
Active Users	1282	1	3	415	826	1281
Number of Lessons	15176	0	22	2707	11043	15176
Number of Tests	1299	0	0	104	539	1296
Number of Logins	13734	2	17	1301	5512	13720



View A Report



View Test Data

C. PGCPs Gr 5 UMathX Initiative – 8 Unit Tests Customized for Gr 5 Curriculum

Select Test

Custom: PGCPs Gr. 5 - Unit 1 Test
Custom: PGCPs Gr. 5 - Unit 2 Test
Custom: PGCPs Gr. 5 - Unit 3 Test
Custom: PGCPs Gr. 5 - Unit 4 Test
Custom: PGCPs Gr. 5 - Unit 5 Test
Custom: PGCPs Gr. 5 - Unit 6 Test
Custom: PGCPs Gr. 5 - Unit 7 Test
Custom: PGCPs Gr. 5 - Unit 8 Test

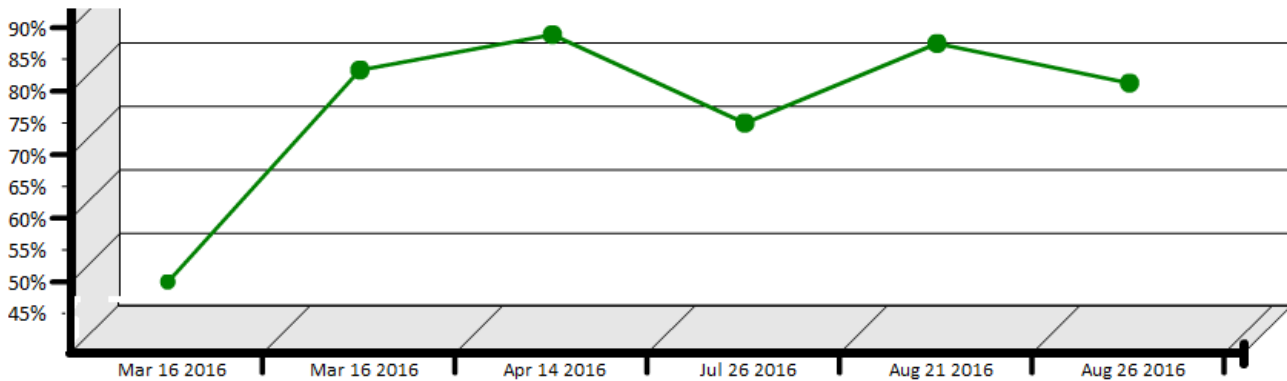
← PGCPs Custom Tests.. Gr 5



D. Sample Gr 5 UMathX Initiative: Unit 1 Custom Test Data ... Growth over Time

Student	Test	Result	Duration	Date
Student1	Custom: PGCPs Gr. 5 - Unit 1 Test	16.7%	00:04:45	Tue Mar 22 2016
Student1	Custom: PGCPs Gr. 5 - Unit 1 Test	50%	00:03:27	Tue Mar 22 2016
Student1	Custom: PGCPs Gr. 5 - Unit 1 Test	83.3%	00:06:16	Fri Apr 8 2016
Student1	Custom: PGCPs Gr. 5 - Unit 1 Test	91.7%	00:07:08	Thu Apr 14 2016

E. Sample Gr 5 UMathX Initiative: Common Core Test Data .. Growth over Time



Student1	Common Core - Grade 5 - NF	9	18	50%	00:11:00	Mar 16 2016
Student1	Common Core - Grade 5 - NF	15	18	83.3%	00:11:39	Mar 16 2016
Student1	Common Core - Grade 5 - NF	16	18	88.9%	00:16:29	Apr 14 2016
Student1	Common Core - Grade 5 - NF	12	16	75%	00:09:57	Jul 26 2016

F. Put us to the test and rise about the rest! UMathX will Improve the Data .. K to Alg1

Below: PGCPs Gr 5 UMathX Initiative: Results from a Sample Class

PGCPs needs UMathX to fill gaps, to catch up and to excel.

PGCPs needs teacher training, assessments, and data analysis. UMathX has it!

PGCPs leadership can measure usage and show growth. UMathX has it!

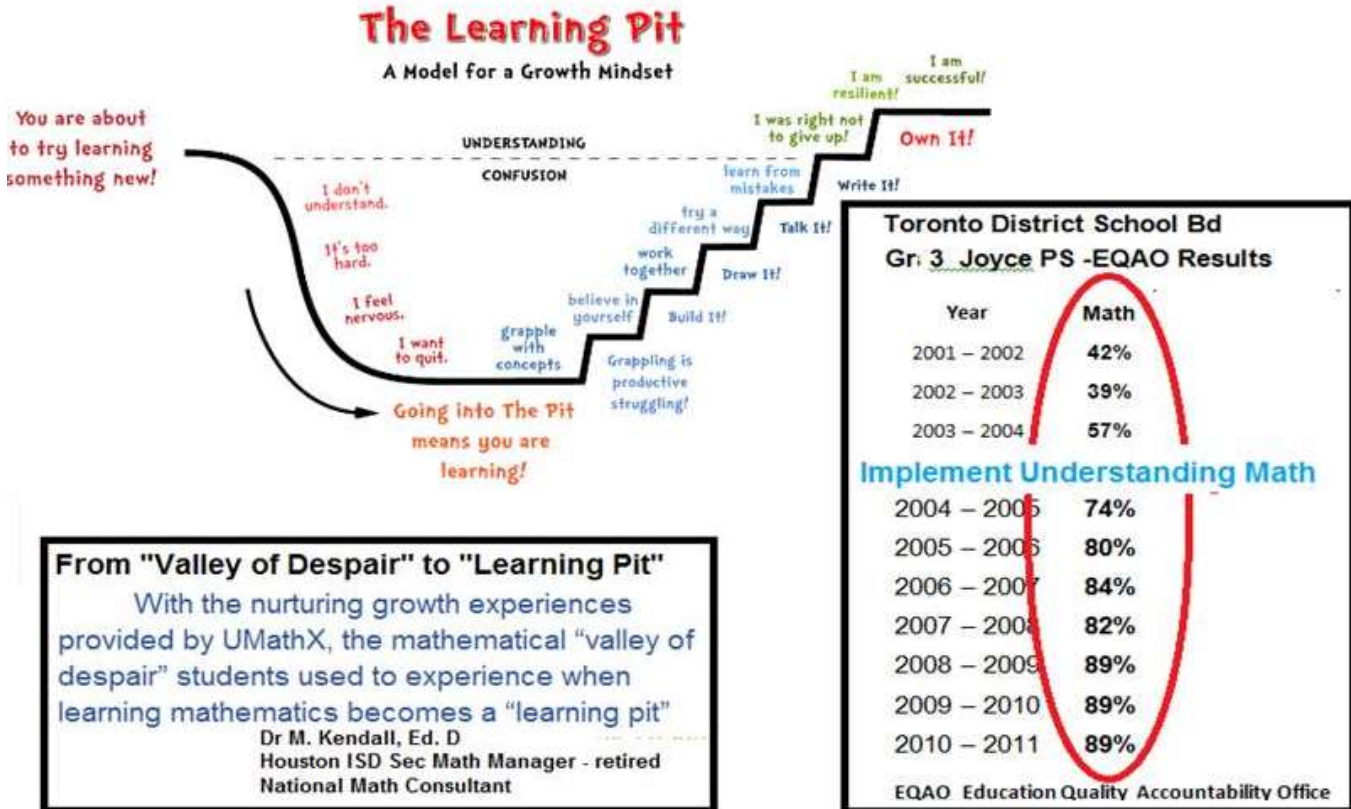
Students use UMathX 3 times a week for 30 minutes and UMathX will guarantee Growth!

Test Name	Result	Time Taken	Date	Type
Unit 1 Test	25%	00:12:09	Nov 20 2015	Custom
Unit 1 Test	16.7%	00:16:40	Dec 9 2015	Custom
Unit 1 Test	66.7%	00:12:13	Nov 20 2015	Custom
Unit 1 Test	41.7%	00:14:42	Nov 20 2015	Custom
Unit 1 Test	33.3%	00:14:40	Dec 9 2015	Custom
Unit 1 Test	33.3%	00:15:28	Dec 9 2015	Custom
Unit 1 Test	25%	00:23:08	Nov 20 2015	Custom
Unit 1 Test	16.7%	00:17:52	Dec 9 2015	Custom
Unit 1 Test	8.3%	00:12:08	Dec 15 2015	Custom



G. UMathX Data .. “Valley of Despair” to “Learning Pit” .. Toronto, Houston

Growth Mindsets - Soaring Scores with UMathX



In 2011, Neufeld Learning Systems began to create UMathX, the 10th version of Understanding Math.

H. UMathX Data .. Research, Multiple Strategies, Differentiation – Dr. Kendall

Imagine a blended-learning system for K-Algebra I that incorporates the latest research on how students learn and provides continued professional learning for the teacher...

UMathX is such a system!

First, the “frameworks” activities designed for **UMathX** support learning experiences in which students construct their own understanding of mathematics concepts: students try something new by utilizing manipulatives and multiple representations to grapple with and make sense of the concepts.

Second, students interact with a computer-assisted learning system designed to scaffold their practice, fill in the gaps, and deepen their understanding.

Third, the **UMathX** system supports teachers’ planning by providing curriculum menus, differentiated instruction through multiple entry points, and opportunities for students to reflect and connect in small-group experiences.

As a former district mathematics leader, **I promoted the district-wide purchase and use of previous versions of this system. Now, as a mathematics education consultant, I enthusiastically continue to share with other educators the benefits to students and teachers that UMathX provides.**

Monica Kendall, Ed. D.; Houston ISD Sec Math Manager (retired)



I. UMathX – Quick Introduction and Access

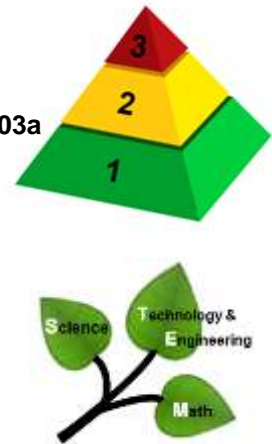
Visit www.umathx.com and select:

- **Videos** UMathX – What is it? – The Learning Pit UMathX – Frameworks for Learning
UMathX – Walk Through UMathX - Assessments
UMathX – Navigation UMathX – Data Analysis
- **Media** Brochure – North America
- **Preview** and choose access for 30 days as a **Student** or **Teacher** or **School Lead** or **District Lead**

Try the **Grade 5 Unit Tests customized for PGCPS** with your class.

Sample Lessons for your Convenience ..within UMathX Menu ..within CCSS/College & Career Ready Standards

Operations – Demonstrate Addition Facts – Making 5 - A	K.OA.01.03
Place Value 2. Model Numbers Grouped in Packs–C–1)Ones & Groups of Ten	K.NBT.01.01
Operations 12) Add 3 or 4 # – A – Add 3 # Vertically	1.OA.03.06
Fractions –The Meaning of Fractions – Think, Write, Say – tier 1, tier 2, tier 3	3.NF.01.01
Operations – 27) Introduce Mult Facts - 2, 3, 4, 5 - Mult: Groups of 4	3.OA.01.01
Decimals to tenths, hundredths, thousandths	4.NF.03.06; 5.NBT.01.03a
Multiply 2 Digit Numbers – Partial Products – Ex. 1 - tier 1, tier 2, tier 3	4.NBT.02.05
Add Fractions – Pattern Blocks & Word Prob – Eat Candy - tier 1, tier 2, tier 3	5.NF.01.01
Multiply Fractions – Developing the Rule - tiers 1, 2, 3 - word problems	5.NF.02.04a
Fractions – Ratios and Proportions – Ratio Table - tier 1, tier 2, tier 3	7.RP.01.02c
Dividing Fractions – Modeling Examples – 1,2,3,4,5,6 – tier 1, tier 2, tier 3	6.NS.01.01
Measurement – Per&Area Polygons – Area Polygons – tier 1, tier 2, tier 3	7.G.02.06
Graphing without a Scale – tier 1, tier 2, tier 3	8.F.02.05
Slope & Line – Walk in Real World - tier 1, tier 2, tier 3	8.EE.02.06
Graphing – Relations, Equations, Functions – Relations – Ex2: tiles, Part 1	A.CED.01.02
Graphing –Quadratic Functions–Maximize Cage Area-- tier 1, tier 2, tier 3	A.CED.01.02
Algebra – Factoring Expressions – Factoring Trinomials – With Tiles	A.SSE.01.02



Frameworks for Learning .. are available at www.umathx.com/frameworks & in the CCSS curriculum menu.

J. Pricing and Ordering

Cost - \$10 per student.

For details, contact us at www.umathx.com or at 1 866 429 6284 (toll free)

K. Put us to the Test and Rise Above the Rest! – We will Guarantee Growth.

- **UMathX** fills gaps for K to Algebra1, to catch up and to excel.
- **UMathX** provides teacher training, assessments, and data analysis.
- **UMathX** provides measure of usage and shows growth in student understanding over time.

Use UMathX 3 times a week for 30 minutes each,
then **UMathX will Guarantee Growth!**

Regards...

Rudy Neufeld

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