



SAMPLE LESSONS in Blended Learning to Address K to Algebra 1 TEKS

UMathX, the 10th version of **Understanding Math**, is 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 Algebra 1. In UMathX, a mistake is seen as an opportunity to learn. UMath X creates opportunities for productive struggling, for grappling, for meaningful discourse yet gives hints towards an answer. Students “built it”, “draw it”, “talk it”, “write it” and then they “OWN IT!”

UMathX now features outstanding content development, assessments and data analysis.

”UMathX has it all... a full service K to Algebra 1 learning environment, supporting a ‘growth mindset’ within a “learning pit” encouraging students and teachers to ‘grapple’ with concepts.” ..(2016 GESS World Conf)

Quick Start - first visit www.umathx.com/videos.php for:

- UMathX – What is it? – The Learning Pit
- UMathX – Navigation
- UMathX – Frameworks for Learning
- UMathX – Assessments

Access UMathX by using a URL, login and password which has been given to you or access a login and password for a limited time by going to www.umathx.com and selecting “preview”.

All Math Concepts from K to Algebra 1 are available to you. SAMPLES are listed below.

<u>LESSONS:</u>	<u>within UMathX Menu</u>	<u>within TEKS Menu</u>
Operations 5) Demonstrate Addition Facts...Making 5 – A		K.3.A.i
Operations 12) Add 3 or 4 # – A – Add 3 # Vertically		1.3.E.ii
Fractions –The Meaning of Fractions – Think, Write, Say – tiers 1, 2, 3		3.3.C.i
Operations – 27) Introduce Mult Facts - 2, 3, 4, 5 - Mult: Groups of 4		2.6.A.i
Decimals to tenths, hundredths, thousandths		4.2.E.i
Multiply 2 Digit Numbers – Partial Products – Ex. 1 With Blocks		4.4.C.i
Multiply Decimals by Partial Products – Area – Ex 1 With Blocks		5.3.E.i
Addition of Fractions – Pattern Blocks & Word Problems – Eating Candy		5.3.H.ix
Multiply Fractions – Developing the Rule - tiers 1, 2, 3 - word problems		6.3.B.i
Dividing Fractions – Modeling Examples – Models 1, 2, 3, 4, 5, 6– tiers 1, 2, 3		7.3.B.iv
Measurement – Per&Area Polygons – Area Polygons – Polygons Broken - tiers		7.9.C
Graphing without a Scale – tier 1, tier 2, tier 3		6.6.C.i; 6.6.C.iii
Slope & Line – Walk in Real World - tier 1, tier 2, tier 3		8.3.C; 8.4.B; 8.4.C.iii
Graphing – Relations, Equations, Functions – Relations – Ex2: tiles, Part 1		A.2.C
Graphing –Quadratic Functions–Maximize Cage Area–Trial & Error to Summary		A.8.B.i



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

The following links give a list of frameworks and lessons, K to Algebra 1 within the TEKS.

<http://neufeldlearning.com/umxtools/TexasFrameworkLister.php>

<http://neufeldlearning.com/umxtools/TexasLessonLister.php>

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