



SAMPLE LESSONS in Blended Learning within UMathX to Address K to Alg 1 Curriculum

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

For a quick start, we suggest that you first visit www.umathx.com/videos.php for:

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

Then access UMathX by using a URL, login and password which has been given to you. Anyone can 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. Some SAMPLES are listed below.

LESSONS: within UMathX Menu within CCSS/College & Career Ready Standards

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 With Blocks	4.NBT.02.05
Multiply Decimals by Partial Products – Area – Ex 1 With Blocks	5.NBT.02.07
Addition of Fractions – Pattern Blocks & Word Problems – Eating Candy	5.NF.01.01
Multiply Fractions – Developing the Rule - tiers 1, 2, 3 - word problems	5.NF.02.04a
Dividing Fractions – Modeling Examples – Models 1, 2, 3, 4, 5, 6– tiers 1, 2, 3	6.NS.01.01
Measurement – Per&Area Polygons – Area Polygons – Polygons Broken - tiers	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–Trial & Error to Summary	A.CED.01.02



Frameworks for Learning .. for each of the above lessons, frameworks are available at www.umathx.com/frameworks as well as in the CCSS Curriculum menu for the particular standard.

The following links give a list of frameworks and lessons, K to Algebra 1 within the CCSS or versions thereof.

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

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

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