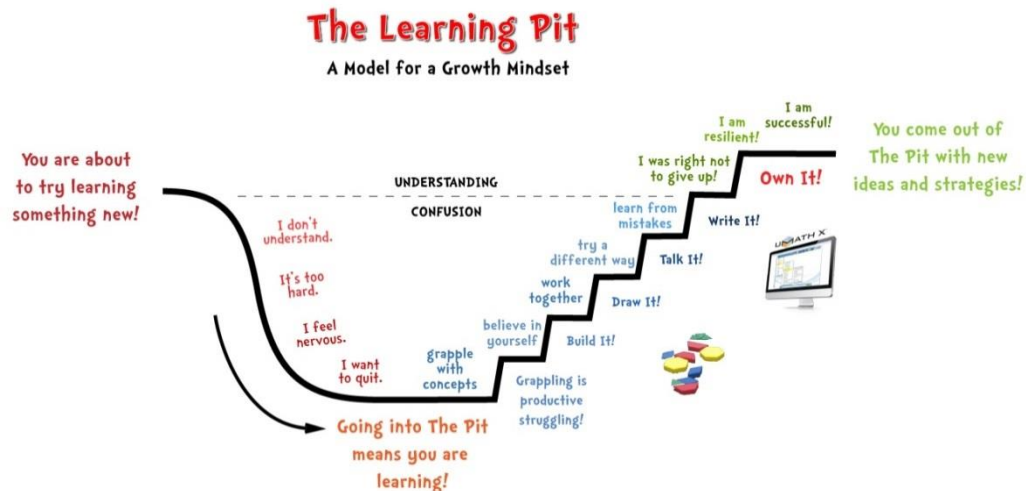


COMPONENTS / FEATURES – PROFESSIONAL LEARNING - DISTRICTS

COMPONENTS / FEATURES

- UMathX, the 10th version of “Understanding Math”, is a browser-based computer assisted learning system that blends a variety of approaches to help students and teachers to develop deeper understanding of mathematics concepts from K to Algebra1(10). It is a full service learning environment, supporting a **growth mindset** within a **learning pit**.



- UMathX “Constructs Understanding” by modeling lessons **online** as well as **on paper**. The on-line software runs on multiple operating systems – Windows, Chrome with optional audio. We are migrating UMathX to a mobile platform, allowing delivery on iPad and tablets, and integration with any district’s Digital Learning System. The off-computer component referred to as a “**Framework for Learning**”, is a model lesson to help in implementing UMathX. The framework consists of a 3 part lesson – “**Getting Started**”, “**Working At It**” and “**Reflecting and Connecting**”. The 3 part lesson is often tiered to customize and attend to the needs of the student. When appropriate, **STEAM** needs are addressed. **Support Sheets** offer additional opportunities for implementing UMathX.
- UMathX is a **Journey within a wide variety of learning environments** where students and teachers are encouraged to **think** through concepts, **choose strategies** and **articulate ideas** towards “**constructing understanding**”. Content and exceptional teaching methodology result in UMathX use by faculties of education to increase mathematics content & pedagogy of the future teacher.
- UMathX has **2 menus**. The 2 menus attend to the needs of the self-directed, life-long learner as well the teacher-student partnership with students working individually, in small groups as well as other learning environment. **The Content menu** covers concepts from K to Algebra1(10) without regard to grades and curricula. It attends to gaps in learning. The learner can also select a **Curriculum Menu** which attends to the curriculum at each grade level. **The combination of the Content Menu, scaffolded to fill gaps, and the Curriculum Menu aligned to a specific curriculum, to attend to concepts within grade levels helps to make sure that students grow in understanding the content.**
- UMathX Developers are **aware of diversity of culture** and continue to add examples and graphics to honor cultures.
- UMathX addresses the following **Principles of Learning**:
 - Interactive with audio and multiple representations of concepts;
 - Encourage “grappling” to support a “growth mindset” - learning from mistakes; (up to 3 hints for an answer)
 - Moving from concrete to pictorial to abstract in a wide variety of learning environments;
 - Suggest a wide variety of teaching strategies – within online lessons, “Frameworks For Learning” and Support Sheets.
- **Three types of assessments** are available to offer actionable data and powerful reporting which allows customization.
 - Curriculum Tests** – Items within a Curriculum Item designed to “show understanding”.
 - Content Tests** – cover items within a certain content area across grade levels.
 - Custom Tests** – are generated by the teacher by choosing specific content.

In each of these tests, the learner is shown his/her answer, the correct answer and then a suggested lesson as followup.

PROFESSIONAL LEARNING & IMPLEMENTATION

WELCOME to an Introduction to UMathX.

UMathX, 10th version of “Understanding Math”

- will **Construct Understanding** in model lessons on **Paper and Online**
- will focus on **Content Development** for teacher and student
- will help in **Teaching Methodology – K to Algebra1(10)**



Modeling to Make Thinking Visible
Core Instruction - Supplementary Resource
Develop Deep Conceptual Understanding



1. Click www.UMathX.com
 - at top: About; Media; Testimonials
 - at bottom: UMathX – Components; Implementation/Professional Learning; Districts
2. Click [UMathX Training ANYWHERE](#)
 - Contact us for a Webinar
 - Prepare the Journey ... pgs 1,2 ... [Videos-UMathX, What is it?](#)
 - Begin the Journey ... pgs 2,3,4 ... lessons.
3. Model a Lesson
4. Plan for School/District ... Free Access until June 15.
 - Getting Started
 - Tests – Bookmarks – Data Analysis
 - [UMathX Pricing](#)

“UMathX helps students gain conceptual understanding better than any other program. Content and Teaching Methodology are exceptional.” Master Teachers, Faculty of Ed., LSU

Contact us: info@UMathX.com
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Toll Free: 866 429 6284

COMPONENTS / FEATURES – PROFESSIONAL LEARNING - DISTRICTS

DISTRICTS

UMathX Training Sites 2000 to 2018

San Antonio ISD	Round Rock ISD	Six Nations of Grand, On	EPS Elizabeth NJ	Bayonne, NJ
Austin ISD	NorthEast ISD	Houston ISD	Polk County, FL	El Paso ISD
Fort Bend ISD	Fort Worth ISD	Lewisville ISD	Abu Dhabi, UAE	Baton Rouge, LA
Victoria ISD	NorthWest ISD	Garland ISD	Orange Cty/Osceola, FL	Memphis, TN
Mission ISD	Cypress Fairbanks ISD	Conroe ISD	Collier Cty, FL	Richmond, VA
Northside ISD	Irving ISD	Mesquite ISD	Pinellas Cty, FL	Arlington, VA
Pflugerville ISD	Brownsville ISD	Katy ISD	Clover, SC	Washington, DC
Denton ISD	Aldene ISD	Rockwall ISD	Va Beach, VA	Anne Arundel,
Farmer's Branch ISD	Dallas ISD	Spring Branch ISD	TVDSB, On	Baltimore, MD
Midland ISD	Pasadena ISD	Halifax, NS	NYC DOE	Louisville, KY
Charlottetown, PE	Montgomery Cty, MD	PGCPS, MD	Lafayette, LA	Rankin Cty, MS
Kilamonjaro, Tanzania	Victoria BC	St. Johns NL	East China/Lapeer, MI	Jonesboro, AR
Santo Domingo, DR	Hilo, Hawaii	Kosrae, Micronesia	Temple ISD	Greenville, SC
TDSB, On	Volusia Cty, FL	Shelby Cty, TN	Atlanta, GA	Marlboro, SC
LaGrange, GA	Mobile, AL	Daphne, AL	Lancaster ISD	Knoxville, TN

- Scientificallly Based Research:** Research based evaluations have been done with many school districts across North America. Since 1991, the core development of Understanding Math, the predecessor of UMathX, the 10th version of Understanding Math, has stemmed from sound classroom pedagogy, with the design process has been consistently set in motion with reference to Principles and Standards for School Mathematics (NCTM). It is the teacher who manages the extreme number of variables that influence the effectiveness of any available resource. Current long-range efforts show an ability to duplicate successful classroom results, and to improve student achievement within a variety of socio-economic environments. This has been realized repeatedly in many classrooms across North America. UMathX allows teachers to make data-driven decisions.

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