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The “U” in UMathX is ... “UNDERSTANDING”



RUDY NEUFELD - AUTHOR



webinar

series with UMathX

Times: We will accommodate you at the following times but also try to accommodate you at other times that are convenient for you.

7 am CDT – Baton Rouge / Houston / Chicago/ Birmingham

8 am EDT – Dominican Republic / NY / Detroit / Toronto / Atlanta

9 am Atlantic Time – Charlottetown / Halifax

Instructions Before the Webinar

Register at info@umathx.com 24 hours before session.

Registered attendees will be invited to the webinar by email at the begin time.

The Learning Environment

- Play the video: *UMathX–What is it?* at www.umathX.com > Media > Videos

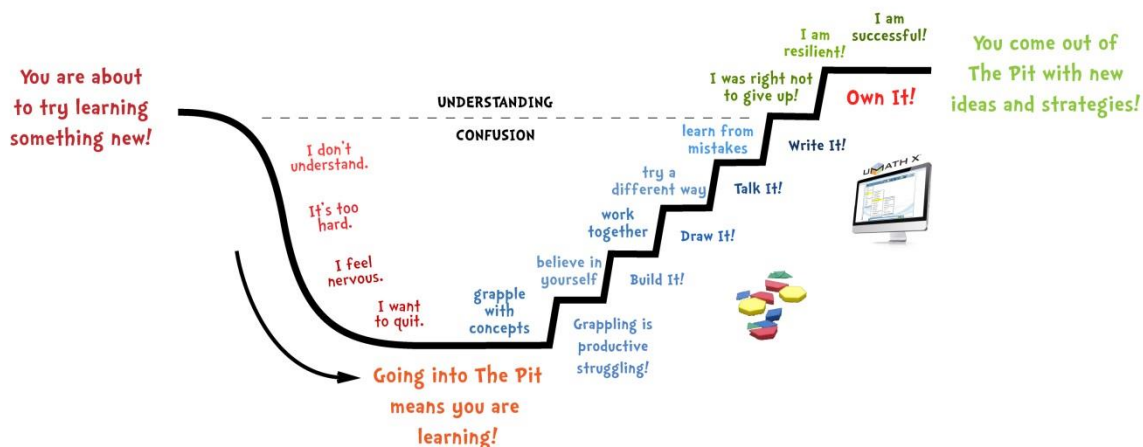


NEEDS:

computer
internet
algebra tiles
frameworks
pencil/pen
crayons

The Learning Pit

A Model for a Growth Mindset



- Play the video <http://www.jamesnottingham.co.uk/learning-pit>
- Enter the URL www.umathx.com/preview into the address box of any browser.
Enter the Username that you have been given for this UMathX session.
Enter the Generic Password: **umathx**

Concept: Tiles and Algebraic Expressions

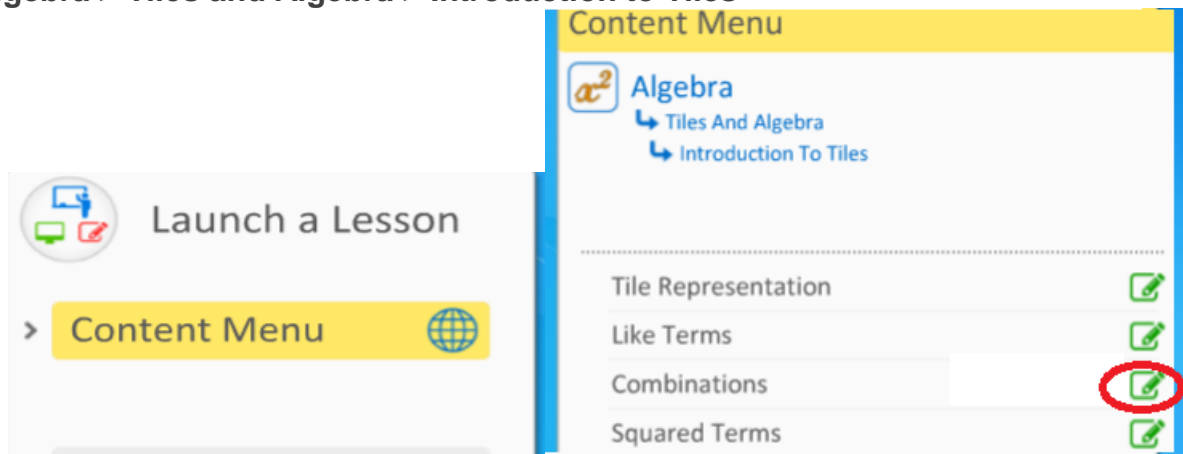
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Select the – **Content Menu**.

Follow the path below:

Algebra > Tiles and Algebra > Introduction to Tiles



Note a green pencil beside “**Combinations**” indicating that a **FRAMEWORK**, a 3 part model lesson for this concepts exists on paper. Click on it and print it. Follow directions.

Framework for Learning: Tiles and Algebraic Expressions #1

Leader's Name:

Co-Leader's Name:

Instructor's Initials:

Getting Started:

In **UMATH X** select the **Content Menu** and follow the path:
Algebra > Tiles and Algebra > Introduction to Tiles > Combinations

Build the algebra tile models and complete the notes below as you work through the lesson on the computer.



Combinations

Algebra Tile Model	Algebraic Expression(s)	Simplified Expression
	___ + ___ + ___	_____
	(___) + (___) + (___) + (___) = ___ - ___ - ___ - ___	_____
	(___) + (___) + (___) + (___) + (___) + (___) = ___ + ___ - ___ - ___ - ___ - ___	_____

Working In It:

Build **algebra tile models** for each of the following. Draw a **color coded picture** of your model. Compare your models with those in the lesson. **Correct** any mistakes.

Model of $4x$.

Model of $-3x + 4$.

Model of $5x - 7$.

Reflect & Connect:

Build **algebra tile models** for each of the following. Draw a **color coded picture** of your model.

$-2x - 6$

$4x + 5$

$-x - 2$

$6x - 3$

Compare your models above with a partner. **Discuss and correct** any mistakes.



Write a short paragraph describing how **algebra tile models** assist with simplifying algebraic expressions. **Justify** your reasoning with at least one novel example.

To UMathX ... www.umathx.com/preview

On Computer, key in the URL www.umathx.com/preview and Login to **UMathX – Content Menu**.

Follow the path below:

Algebra > Tiles and Algebra > Introduction to Tiles

Note a green pencil beside “**Squared Terms**” indicating that a **FRAMEWORK**, a 3 part model lesson for this concepts exists on paper. Click on it and print it. Follow directions.

Framework for Learning: Tiles and Algebraic Expressions - 2

Leader's Name:

Co-Leader's Name:

Instructor's Initials:

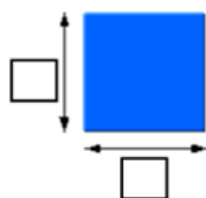
Getting Started:

In **U^MMATH X** select the **Content Menu** and **follow** the path:

Algebra > Tiles and Algebra > Introduction to Tiles > Squared Terms

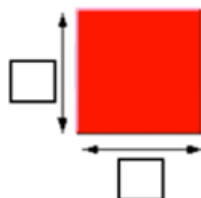
Build algebra tile models and **complete** the notes below as you work through the lesson.

Squared Terms



The area is _____ × _____ = _____.

This tile represents _____.



The area is _____ × _____ = _____.

This tile represents _____.

Working In It:

In **U^MMATH X** select the **Content Menu** and **follow** the path:

Algebra > Tiles and Algebra > Algebraic Expressions to Tiles > Examples 1 – 3

Build algebra tile models and **draw color coded models** of each example as you complete the lesson.

Example 1

$$x^2 + x + 1$$

Example 2

$$2x^2 + 3x + 4$$

Example 3

$$x^2 - 2x - 4$$

Reflect & Connect:

Build **algebra tile models** for each of the following. Draw **color coded pictures** of your models.

Question 1 $4x^2 - 2x + 3$

Question 2 $-3x^2 + 5x - 4$

Question 3 $-x^2 - 3x - 7$

Compare your models above with a partner. Discuss and correct any mistakes.

Write three algebraic expressions containing x^2 terms. Build **algebra tile models** for each. Draw **color coded models** below each expression.

Expression 1: _____ Expression 2: _____ Expression 3: _____

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www.umathx.com/supportsheets

www.umathx.com/preview

In this Framework, model 3 part lesson, you used
UMathX on Computer, Framework on Paper and Algebra Tiles

Build It. Draw It. Talk It. Write It. Now you OWN It!