Grade 8th
Distance Learning Module 3: Week of: April 13th – 17th

Content Area: MATH - Grade 8 Algebra - *Modified from Unit F - Beyond Straight Lines*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

Vocabulary:

Rationalize the Denominator - Rewriting a fraction so that it does not contain a square root in the denominator
Conjugate - the other binomial that makes a difference of squares in the factored form.

Examples: The conjugate of $(x + 3)$ is $(x - 3)$
The conjugate of $(2x - 7)$ is $(2x + 7)$

Radical Equation - Equation with the variable under the square root

Skills: Rationalize the denominator, Rationalize the denominator through the conjugate, Solve radical equations

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or Khan Academy
Monday: ● Watch videos on how to rationalize the denominator ● Practice rationalizing the denominator	Instruction: Rationalize the denominator video 1 (youtube) Rationalize the denominator video 2 (youtube) Vocabulary:	Check-in (google form) **Do in your individual teacher's google classroom only**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or Khan Academy
	Practice: Rationalize the denominator practice (skip cubed problems	
Tuesday: ● Watch videos on how to rationalize the denominator through the conjugate ● Practice rationalizing the denominator through the conjugate	Instruction: Rationalizing the denominator through the conjugate (Khan) Practice: Rationalizing the denominator through the conjugate (read explanation and complete questions 1-5 and 8-10 of ***Your Turn*** at the bottom of the page	Check-in (google form) **Do in your individual teachers google classroom only**
Wednesday: ● Watch videos on how to solve radical equations ● Practice solving radical equations	Instruction: Intro to square root equations and extraneous solutions (Khan) Solving radical equations one solution (Khan)	**DO NOT use this link to Khan Academy. Log into your Khan account and complete the assignment through your individual teacher's Khan class. Teachers will assign these in their Khan classes.** Practice square root equations (Khan)
Thursday: ● Read Mathisfun example ● Practice with Mathisfun ***Your Turn*** questions	Instruction: Mathisfun website example Practice: Mathisfun ***Your turn*** questions 1-5 only at the	Check-in (google forms) **Do in your individual teacher's google classroom only**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or Khan Academy
	bottom of the page	
Friday: ● Mixed Review and Practice	Instruction: None Practice: Mixed Review Practice (document)	Check-in (google form) **Do in your individual teacher's google classroom only**

Week criteria for success (attach student checklists or rubrics):

1. I can rationalize the denominator
2. I can rationalize the denominator through the conjugate
3. I can solve radical equations

Supportive resources and tutorials for the week (plans for re-teaching):

Mr. Potter's smartboard notes pdf - PDF of classroom notes with examples, practice problems and answers

Mrs. Gwiazda's Google Slides