Grade 8
Distance Learning Module 7: Week of: May 18th – May 22nd

Grade 8 Algebra *Modified from Unit B Unit B - Relationships (Equations, Inequalities and Functions)*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: CCSS.MATH.CONTENT.HSA.SSE.A.1.B Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret P(1+r)n as the product of P and a factor not depending on P. Write expressions in equivalent forms to solve problems. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

Vocabulary: Rational expression, restriction, reciprocal, rational functions

Skills: Simplifying Rational Expressions
Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Make connections between fractions students have seen before and these expressions. Simplify Rational Expressions	**Instruction:** Intro to Rational Expression Simplification **Video** **Practice:** Khan Read this article and answer the questions. Intro to Rational Expressions Notes **Article/Practice**	Teacher will check Khan work
Tuesday: Multiply Rational Expressions	**Instruction:** Video Simplifying Rational Expressions:Common Monomial Factors **Practice:** Simplify Expressions (with solutions) Practice	Khan Simplifying Rational Expressions: Common Monomial Factors Check-In

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Divide Rational Expressions	**Instruction:** Simplifying Rational Expression: Common Binomial Factors Video Simplifying Rational Expressions:Opposite Binomial Factors Video **Practice:** Simplifying Advanced Rational Expressions Notes/Practice	Khan Simplifying Rational Expressions: Common Binomial Factors Check-In
Thursday: Find the restrictions on the variable of a rational expression	**Instruction :** Simplifying Rational Expressions: Grouping Video Simplifying Rational Expressions: Higher Degree Video Simplifying Rational Expressions: 2 Variables Video **Practice:** Simplifying Rational Expressions: Advanced **Practice**	Khan Rational Functions Quiz #1 Quiz
Friday: Review Simplifying Rational Expressions	**Practice:** Unit Notes with Review Problems Review Online Practice with solutions	

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

_____I can find the domain (state the restrictions) of a rational expression

_____I can factor out the greatest common factor to simplify a rational expression

_____I can factor the numerator and denominator of a rational expression to simplify

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

Review: Video Simplifying Monomials Divided by Monomials

Practice Simplifying Monomial divided by Monomial

Video Simplify Rational Expressions by Factoring out a Common Monomial

Kuta: Simplifying Rational Expressions and Find the Restrictions