Suggested Pacing: 1 day 50 min class

ACOS Standards:

11 (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.

19 Rewrite simple rational expressions in different forms; write $a(x$

This curriculum guide is designed to support

Suggested Pacing: 2 days with one day being a 90 min class and one day being a 50 min class

ACOS Standards:
12 Interpret expressions that represent a quantity in terms of its context.*
a. Interpret parts of an expression such as terms, factors, and coefficients.
b. Interpret complicated expressions by viewing one or more of their parts as a single entity.

29 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.*

31 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.

Learning Objectives:
Long-run behavior
Rational Functions and their Graphs
The students will identify properties of rational functions.
The students will graph rational functions.

Key Vocabulary:
rational function
continuous graph
point of discontinuity
removable discontinuity
non-removable discontinuity
vertical asymptote
horizontal asymptote
slant or oblique asymptote

Assessment Plan:
Guided questions
Guided practice
Student Activity Pages

Learning Activities:

intercepts, and y-intercepts. These items should be labeled on the graph on the board and easily identifiable.

During:

The teacher will bring all the concepts together on graphing rational functions.

First, the teacher will model

Materials:
Student Activity pages
Graphing Calculators
www.desmos.com

Differentiation/Accommodations:
The teachers will have to take away questions or make certain questions part of whole class instruction. Allow students to work independently as it is feasible. The worksheet can be modified to fit your students' needs.

Technology Integration:
Graphing Calculator
www.desmos.com