

Unit Title: Equivalent Fractions
Grade Level: 4th Grade
Subject Area: Math
Duration/Length/Number of class periods: 5 lessons
Description: Students will use a variety of tools to create equivalent fractions and tell why those fractions are equal to each other. Students will explain where in real-life they might use equivalent fractions.
Established Goals (National, State, Local): Minnesota Standards 4.1.2.1 Represent equivalent fractions using fraction models such as parts of a set, fraction circles, fraction strips, number lines, and other manipulatives. Use the models to determine equivalent fractions. 4.1.1.1 Demonstrate fluency with multiplication and division.

What Enduring Understandings are desired? There are many ways to represent a number. Number sense develops through experience. Operations create relationships between numbers. The relationships among the operations and their properties promote computational fluency.
What Essential Questions will be considered? When would you need to find an equivalent fraction in the real world? How can you find equivalent fractions? Why do we need to understand equivalent fractions? How are equivalent fractions useful in the real world?
Students will know / be able to: Students will use technology and manipulatives to create and identify equivalent fractions.

Description	For ma tive	Su m ma tive	Intro duct ory Acti vity	Lear ning Acti vity	Stud ent Tech nolo gy Use d	Teach er Tech nolog y Used	ISTE Stand ards
Day 1			X		X	X	

Tell me what you know or remember about fractions (use Padlet) and show on Smartboard. Introductory lesson identifying basic fractions and pictures to match those fractions. Review/introduce fraction vocabulary (numerator, denominator, equivalent fraction).							
Day 2 Using fraction bars, fraction circles, or number lines, in small groups students will find equivalent fractions for a specific fraction and record results on a large piece of paper. Students will discuss how they know they are equivalent to each other. Students will record a FlipGrid video showing a set of equivalent fractions using their choice of manipulative.				X			
Day 3 Discussion about how equivalent fractions are related to multiplication and/or division facts. Students will use various websites (see materials below) to practice finding equivalent fractions in a game-like format. Students record a video using Seesaw to explain how to find equivalent fractions using multiplication and/or division.	X			X	X	X	6C
Day 4 Students will identify real-world examples of equivalent fractions (cooking/baking, measuring, quilting, etc.) and continue with website games.				X			
Day 5 Google Form problems: finding equivalent fractions, making equivalent fractions, identifying if fractions are equivalent or not equivalent. Seesaw: Create a video explaining how to find equivalent fractions using multiplication & division.		X					6D

Materials, tools and resources: Chromebooks, fraction bars, fractions circles, number lines Websites used: Triplets Equivalent Fractions Find equivalent fractions using area models 4th grade math Identify equivalent fractions 4th grade math Equivalent fractions: find the missing numerator or denominator 4th grade math
Unit Plan Author Lori Oechsle, Luverne Elementary School
Additional credit given to: Jodi Johnson