

Common Core State Standards

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| 6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. | 6.RP.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g. by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. | 6.RP.3a Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. |
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Essential Question: *How do you use ratio concepts and ratio reasoning to solve problems?*

Monday: Math Binders, Google Classroom, and Math Warm Ups

Objective: Students will set up their math binders, join my Google Classroom and begin working on Math Warm Ups today. Classroom Expectations and Procedures will also be reviewed!

Agenda:

1. Warm up: (10 min) W1:Day 1, Growth Mindset Video: Famous Failures (during attendance):
<https://www.youtube.com/watch?v=zLYECljmnQs&list=PLmQSJICY9X0fEdDOWepUX60JvBiYAqqap>
2. Classwork: Students will begin working on their math warm up as soon as they enter class, I will EXPLICITLY go over the warm up with the class to ensure they understand how to complete it each day.
3. I will show each class my class website and have them sign up for Google Classroom today while in class. Students will begin homework today!

Tuesday: Kahn Academy & FALL NWEA

Objective: Students will be introduced to Kahn Academy through Google Classroom. Students will be assigned a standard/lesson each week to complete by Friday- today will be a day to sign up for Kahn Academy, finish Vocabulary Assessments (if not completed), and finish NWEA (if not completed).

* NWEA Objective: Students will determine their current levels in math by taking the Fall NWEA math test. Students will record their current RIT scores in the areas of Operations and Algebraic Thinking, Numbers and Operations, Measurement and Data, and Geometry.

Agenda:

1. Warm up: (10 min) W1:Day 2, Growth Mindset- Kid President Video:
<https://www.youtube.com/watch?v=l-gQLqv9f4o&list=PLmQSJICY9X0fEdDOWepUX60JvBiYAqqap&index=3>
2. Classwork: Kahn Academy, Complete the NWEA Math Test, Finish Vocabulary Test!
3. Homework: Complete Individual Fall Math Goals based on results from Math NWEA scores.

NOTE: Display NWEA Goal Setting Sheet on Doc Cam with instructions showing how to fill it out when finished testing

Wednesday: Introduction to Ratios and Proportions

Objective: Students will understand that a ratio is an ordered pair of numbers which are not both zero. Students will create and write ratios based on the number of colored skittles they have in their bag of skittles illustrating part to part and part to whole ratios.

Agenda:

1. Warm up: (10 min): W1:Day 3, Math Antics Video: Introduction to Ratios <https://www.youtube.com/watch?v=RQ2nYUBVvqI>
2. Activity (15 min): Skittles Activity
3. Classwork: (30 min) Introduction to Ratios Notes Worksheet
4. Exit Ticket: Intro to Ratios Exit Ticket
5. Homework: Introduction to Ratios Worksheet (write each ratio in each of the three ways (fraction, "to", and colon) and 6.RP.1 Daily Quiz (2 Sided Homework Page)

Thursday: RATIOS ENGAGE NEW YORK LESSON 1-1

Objective: Students will understand that a ratio is an ordered pair of numbers which are not both zero. The students will understand that the order of the pair of numbers in a ratio matters and will be able to come up with real-world contextual situations to match a given ratio.

Agenda:

1. Warm up: (5-10 min) W1:Day 4, Math Antics Video: Introduction to Ratios <https://www.youtube.com/watch?v=RQ2nYUBVvqI>
2. Classwork: (10 min) Use Engage NY Lesson 1-1 Classwork- Use example questions to guide Ratio discussions
3. Exit Ticket: Google Classroom Exit Ticket (Ratios)
4. Homework: Engage NY Lesson 1-1 Problem Set

Friday: Engage New York Lesson 1-2 RATIOS

Objective: Students will reinforce their understanding that a ratio is an ordered pair of nonnegative numbers, which are not both zero. Students will create multiple ratios from a context in which more than two quantities are given and be able to come up with real world contextual situations to match a given ratio.

Agenda:

1. Warm up: (10 min) Ratio of the Day Worksheet and Math Playground: What is a Ratio? http://www.mathplayground.com/howto_ratios.html (Reteach ratios)
2. Classwork: (10 min) Engage NY Exercise 1, (20 Min) Exploratory Challenge, (10 min) Vocabulary (Ratio Table)
3. Exit Ticket: Give three different ratios with a description of the ratio relationship using male teachers to female teachers at MMS (preprinted exit ticket)
4. Homework: Engage NY Lesson 1-2 Problem Set

Date: Week of September 10, 2018

*Mrs. Rayman's 6th Grade Advanced Math
Weekly Lesson Plans*

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6. Classwork: (10 min) Engage NY Exercise 1, (20 Min) Exploratory Challenge, (10 min) Vocabulary (Ratio Table)
7. Exit Ticket: Give three different ratios with a description of the ratio relationship using male teachers to female teachers at MMS (preprinted exit ticket)
8. Homework: Engage NY Lesson 1-2 Problem Set

Thursday: Engage New York Lesson 1-3 Equivalent Ratios

Objective: Students will develop and intuitive understanding of equivalent ratios by using tape diagrams to explore possible quantities of each part when given the part to part ratio.

Agenda:

1. Warm up: (10 min) Equivalent Ratio Warm Up (½ sheet, 2 sided) and Math Playground: Equivalent Ratios Video http://www.mathplayground.com/howto_equalratios.html
2. Classwork: (30 min) Engage NY Exercises 1-4, (15 min) Vocabulary (Equivalent Ratios) and Fill out Equivalent Ratio Notes
3. Exit Ticket: Equivalent Ratio Exit Ticket
4. Homework: Equivalent Ratio Practice Sheet and Daily Quiz Equivalent Ratios

Thursday Engage NY Lesson 1.4

Objective: Students will identify equivalent ratios, when given a ratio. Students will use tape diagrams and the description of equivalent ratios to determine if two ratios are equivalent.

Agenda:

1. Warm up: Ratio of the Day Worksheet “Solve ratio problems using tape diagrams” Video: Equivalent Ratios: <https://www.youtube.com/watch?v=rzLPMzAdC4s>
2. Classwork: Engage NY Lesson 1.4 Exercises 1-2
3. Exit Ticket: “Use a tape diagram to solve the problem”
4. Homework: Equivalent Ratios Practice Sheet

Friday Engage NY Lesson 1.5

Objective: Students will use tape diagrams to find an equivalent ratio when given the part to part ratio and the total of those two quantities. Students use tape diagrams to find an equivalent ratio when given the part to part ratio and the difference between those two quantities.

Agenda:

1. Warm up: Ratio of the Day AND “Matching equivalent ratios”
2. Classwork: Engage NY Lesson 1.5 Exercises 1-4
3. Exit Ticket: “Equivalent Ratios” Exit Slip
4. Homework: Engage NY “Finding Equivalent Ratios” and/or Equivalent Ratios Daily Take Home Quiz (depending on time)