Sep 8-11

Unit:

Focus:

By Hannah

Math Standard: 7.1.1.1

**MN Benchmarks:** Know that every rational number can be written as the ratio of two integers or as a terminating or repeating decimal. Recognize that  $\pi$  is not rational, but that it can be approximated by rational numbers such as 22/3 and 3.14.

#### Lesson / Activities:

- What's Rational About that?
  - <a href="https://betterlesson.com/lesson/494381/what-s-rational-about-that-day-1?from=search">https://betterlesson.com/lesson/494381/what-s-rational-about-that-day-1?from=search</a>
- Double Number Line
  - o <a href="https://betterlesson.com/lesson/558002/ratios-and-double-number-lines">https://betterlesson.com/lesson/558002/ratios-and-double-number-lines</a>
- Classify Numbers Escape Room
  - o <a href="https://www.pinterest.com/pin/119978777562985005/?nic\_v2=1a3ll5hDs">https://www.pinterest.com/pin/119978777562985005/?nic\_v2=1a3ll5hDs</a>
- Pi Skyline
  - o <a href="https://edex.adobe.com/resource/v15fe3eed">https://edex.adobe.com/resource/v15fe3eed</a>

Week 2

Sep 14-18

Unit:

Focus:

By Hannah

Math Standard: 7.1.1.2

**MN Benchmarks:** Understand that division of two integers will always result in a rational number. Use this information to interpret the decimal result of a division problem when using a calculator.

- Manipulatives
  - Algeblocks Factor Track and Unit Cubes
- Patterns in Multiplication and Division
  - <a href="https://betterlesson.com/lesson/536610/patterns-in-mutliplication-and-division?f">https://betterlesson.com/lesson/536610/patterns-in-mutliplication-and-division?f</a> rom=search
- Integer Division War
  - https://www.teacherspayteachers.com/Product/Integer-Division-War-Game-328
     754
- Hate-Love
  - https://eduref.org/lessons/mathematics/ath0201

#### Week 3

Sep 21-25 (Early Release Friday)

Unit: 1 Focus:

By Hannah

Math Standard: 7.1.1.3

**MN Benchmark:** Locate positive and negative rational numbers on a number line, understand the concept of rational numbers on a coordinate grid.

- Manipulatives
  - Fraction tiles- ones with both fractions and decimals
- Advanced Number Line
  - https://www.pinterest.com/pin/2674081013012022/?nic v2=1a3ll5hDs
- Rational Numbers on Coordinate Plane
  - <a href="https://betterlesson.com/lesson/543998/graphing-rational-numbers-on-the-coordinate-grid">https://betterlesson.com/lesson/543998/graphing-rational-numbers-on-the-coordinate-grid</a>
- Rational Number Line
  - https://www.thoughtco.com/rational-number-line-lesson-plan-2312860

Sep 28-Oct 2

Unit: Focus:

By Hannah

**Math Standard**: 7.1.1.4, 7.1.1.5

**MN Benchmark:** Compare positive and negative rational numbers expressed in various forms using the symbols <, >,=, $\le$ , $\ge$ .

Recognize and generate equivalent representations of positive and negative rational numbers, including equivalent fractions.

#### Lesson / Activities:

- Manipulatives
  - Fraction tiles- ones with both fractions and decimals
- Positive and Negative Rational Numbers
  - <a href="https://curriculum.illustrativemathematics.org/MS/teachers/1/7/4/index.html">https://curriculum.illustrativemathematics.org/MS/teachers/1/7/4/index.html</a>
- Worksheets for All Math Standards
  - <a href="https://newpathworksheets.com/math/grade-7/fractions-decimals-1/minnesota-standards">https://newpathworksheets.com/math/grade-7/fractions-decimals-1/minnesota-standards</a>
- Rational Numbers with Symbols
  - https://www.oercommons.org/courseware/lesson/661/overview

Week 5

Oct 5-9

Unit: Focus:

By Hannah

Math Standard: 7.1.2.1

**MN Benchmarks:** Add, subtract, multiply and divide positive and negative rational numbers that are integers, fractions and terminating decimals; use efficient and generalizable procedures, including standard algorithms; raise positive rational numbers to whole-number exponents.

- Manipulatives
  - Addition and Subtraction- Algeblocks Unit Cubes and Basic Mat
  - Multiplication and Division- Unit Cubes and Factor Track,
- Rational Number Squares
  - https://www.pinterest.com/pin/AeGQUBwohgsIsOVWtT40Qidilhyh0I8GSYGs4 LplpKPzt8Q\_fN1yif4CG\_rOBNFzUKrMMKkeKqwiD6Fjxo0-Ny0/?nic\_v2=1a3II5 hDs
- Task Cards
  - <a href="https://www.teacherspayteachers.com/Product/Adding-and-Subtracting-Positive-and-Negative-Rational-Numbers-2843436">https://www.teacherspayteachers.com/Product/Adding-and-Subtracting-Positive-and-Negative-Rational-Numbers-2843436</a>
- Exponents
  - https://betterlesson.com/lesson/503945/the-power-of-exponents

#### Week 6

Oct 12-14 (MEA 3 Day Week)

Unit: Focus:

By Hannah

Math Standard: 7.1.2.2

**MN Benchmark:** Use real-world contexts and the inverse relationship between addition and subtraction to explain why the procedures of arithmetic with negative rational numbers make sense.

- Manipulatives
  - Positive and Negatives- tile spacers
- Gizmos Math
  - https://www.explorelearning.com/index.cfm?method=cResource.dspStandardC orrelation&id=654
- KIDDOM-online activities to work with standards
  - <a href="https://www.kiddom.co/standards/99-minnesota-mathematics-learning-standards/grade-7/7.1.2.2">https://www.kiddom.co/standards/99-minnesota-mathematics-learning-standards/grade-7/7.1.2.2</a>
- What's Up With That?
  - <a href="https://betterlesson.com/lesson/490165/what-s-up-with-that-the-connection-bet">https://betterlesson.com/lesson/490165/what-s-up-with-that-the-connection-bet</a> ween-addition-and-subtraction-of-integers

Oct 19-23

Unit: Focus:

By Hannah

Math Standard: 7.1.2.3, 7.1.2.4

**MN Benchmark:** Understand that calculators and other computing technologies often truncate or round numbers.

Solve problems in various contexts involving calculations with positive and negative rational numbers and positive integer exponents, including computing simple and compound interest.

#### Lesson / Activities:

- Gizmo Compound Interest
  - <a href="https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=272">https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=272</a>
- Simple Interest
  - <a href="https://betterlesson.com/lesson/553000/simple-interest">https://betterlesson.com/lesson/553000/simple-interest</a>
- Integer Exponents
  - file:///Users/hannahpfannenstein/Downloads/algebra-ii-m3-topic-a-lesson-1-tea cher.pdf
- Integer Exponent Game
  - https://www.teacherspayteachers.com/Product/Integer-Exponent-Card-Game-1 014574

Week 8

Oct 26-30

Unit:

Focus:

By Hannah

Math Standard: 7.1.2.5

**MN Benchmark:** Use proportional reasoning to solve problems involving ratios in various contexts.

- Proportional Reasoning
  - https://www.teacherspayteachers.com/Product/MM-Proportional-Reasoning-Activity-1224619
- Mixing Drinks
  - https://www.map.mathshell.org/lessons.php?unit=6230&collection=8&redir=1
- Real Life Unit Rates
  - https://i.pinimg.com/originals/8a/c7/ce/8ac7ceb83c526f24de3051693038d1de.jpg
- Proportional Reasoning Tech
  - https://www.commonsense.org/education/lesson-plans/applying-proportional-re asoning

Week 9 Nov 2-6 Unit: Focus:

By Hannah

Math Standard: 7.1.2.6

**MN Benchmark**: Demonstrate an understanding of the relationship between the absolute value of a rational number and distance on a number line. Use the symbol for absolute value.

#### Lesson / Activities:

- Absolute Value Games
  - http://ideagalaxyteacher.com/11-absolute-value-activities/
- Video and Penny Game
  - <a href="https://lptv.pbslearningmedia.org/resource/muen-math-ns-absvalue/absolute-v">https://lptv.pbslearningmedia.org/resource/muen-math-ns-absvalue/absolute-v</a>
     alue/support-materials/
- Absolute Value
  - https://betterlesson.com/lesson/437463/absolute-value-taking-a-deeper-look
- Absolute Value
  - https://www.s2temsc.org/uploads/1/8/8/7/18873120/grade-6-absolutevalue-I2.p
     df

Week 10 Nov 9-13 Unit: Focus: By: Hannah

Math Standard: 7.2.1.1

**MN Benchmark:** Understand that a relationship between two variables, x and y, is proportional if it can be expressed in the form y/x=k or y=kx. Distinguish proportional relationships from other relationships, including inversely proportional relationships (xy=k or y=k/x).

#### Lesson / Activities:

- Graphic Organizer and Activities
  - https://www.maneuveringthemiddle.com/how-to-teach-proportional-relationships/
- Proportional Candy
  - https://betterlesson.com/lesson/460369/proportional-candy-gate-day-1
- Proportional Riddle
  - https://www.teacherspayteachers.com/Product/Proportional-Relationships-Activity-Cross-Out-Riddle-Distance-Learning-2346856\
- Sorting Cards
  - <a href="https://www.teacherspayteachers.com/Product/Directly-Proportional-Inversely-Proportional-Neither-Sort-Cards-455098">https://www.teacherspayteachers.com/Product/Directly-Proportional-Inversely-Proportional-Neither-Sort-Cards-455098</a>

Week 11 Nov 16-20 Unit: Focus:

By: Meagan

Math Standard: 7.2.1.2

**MN Benchmark:** Understand that the graph of a proportional relationship is a line through the origin whose slope is the unit rate (constant of proportionality). Know how to use graphing technology to examine what happens to a line when the unit rate is changed.

- Proportional Relationships Discovery -<u>https://www.teacherspayteachers.com/Product/Intro-to-Proportional-Relationships-Activity-4301332</u>
- Slope and Proportionality -https://teacher.desmos.com/activitybuilder/custom/57f3dd9dcf3c849008d81007
- Marcellus the Giant Activity https://teacher.desmos.com/activitybuilder/custom/58093e7b37d6769f0b7fde92

Nov 23-25 (3 DAY WEEK) (25th Early Release and End of Tri)

Unit: Focus:

By: Meagan

Math Standard: 7.2.2.1

**MN Benchmarks:** Represent proportional relationships with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another. Determine the unit rate (constant of proportionality or slope) given any of these representations.

#### Lesson / Activities:

Unit rate maze -

https://www.teacherspayteachers.com/Product/Unit-Rate-Digital-Resource-4065400

- Unit rate task cards https://www.teacherspayteachers.com/Product/Unit-Rate-Task-Cards-Printable-Digital
   -Resource-3447884
- Sugar in Soda Project https://mathequalslove.blogspot.com/2012/04/sugar-packets-and-proportions.html

Week 13 Nov 30-Dec 4 Unit: Focus:

By: Meagan

**Math Standard**: 7.2.2.2, 7.2.2.3

**MN Benchmarks:** Solve multi-step problems involving proportional relationships in numerous contexts.

Use knowledge of proportions to assess the reasonableness of solutions.

- Multi-Step Ratio and Percent Problems Escape Room https://www.teacherspayteachers.com/Product/NO-PREP-Multi-Step-Ratio-Percent-Pr
   oblems-Escape-Room7RP3-Activity-4796503
- Multi-Step Ratio Problems (Interactive Digital Activity) https://flexbooks.ck12.org/cbook/ck-12-interactive-middle-school-math-7-for-ccss/secti

on/1.8/related/lesson/solving-multi-step-ratio-problems-math-7-ccss-msm7-ccss-te/

• Ratio Rumble - https://mathsnacks.com/ratio-rumble-guide.html

#### Week 14

Dec 7-11 (Early Release on the 11th)
Unit:
Focus:

By Meagan

Math Standard: 7.2.2.4

**MN Benchmarks:** Represent real-world or mathematical situations using equations and inequalities involving variables and positive and negative rational numbers.

#### Lesson / Activities:

- Real World Inequality Card Sort https://www.teacherspayteachers.com/Product/Real-World-Inequality-Situations-Card-Sort-Matching-Activity-4340255
- Real World Inequalities Domino Activity - <a href="https://www.teacherspayteachers.com/Product/Real-World-Inequalities-Domino-Activit">https://www.teacherspayteachers.com/Product/Real-World-Inequalities-Domino-Activit</a> v-3322773
- Writing Equations to Represent Real World Scenarios https://betterlesson.com/lesson/543969/writing-algebraic-equations-to-represent-real-world-scenarios-one-step

Week 15
Dec 14-18
Unit:
Focus:

By Meagan

Math Standard: 7.2.3.1

**MN Benchmarks:** Use properties of algebra to generate equivalent numerical and algebraic expressions containing rational numbers, grouping symbols and whole number exponents. Properties of algebra include associative, commutative and distributive laws.

- Spin to Win Game - https://www.teacherspayteachers.com/Product/Properties-in-Math-Spin-to-Win-Game-Pre-Algebra-Version-775918
- Writing Equivalent Expressions Fortune Teller -<a href="https://www.teacherspayteachers.com/Product/Fortune-Teller-Writing-Equivalent-Expressions-Using-Properties-1784511">https://www.teacherspayteachers.com/Product/Fortune-Teller-Writing-Equivalent-Expressions-Using-Properties-1784511</a>
- Properties of Algebra Exploration https://www.teacherspayteachers.com/Product/Associative-Commutative-and-Distribut ive-Properties-Exploration-4171608

#### Week 16

Dec 21-22 (2 DAY WEEK)

Unit: Focus:

By Meagan

Math Standard: 7.2.3.2, 7.2.3.3

**MN Benchmarks:** Evaluate algebraic expressions containing rational numbers and whole number exponents at specified values of their variables.

Apply understanding of order of operations and grouping symbols when using calculators and other technologies.

- Evaluate Algebraic Expressions Interactive https://www.iknowit.com/lessons/e-evaluating-algebraic-expressions.html
- Order of Operations on Calculator Task Card Activity -<a href="https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity">https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity</a>
   <a href="https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity">https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity</a>
   <a href="https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity">https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity</a>
   <a href="https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity">https://www.teacherspayteachers.com/Product/Order-of-Operations-Calculator-Activity</a>
   <a href="https://www.teacherspayteachers.com/">https://www.teacherspayteachers.com/</a>
   <a href="https://www.teacherspayteachers.com/">https://ww
- Evaluating Algebraic Expressions Puzzle https://www.teacherspayteachers.com/Product/Evaluate-Algebraic-Expressions-Puzzle-2932939#ratings-and-reviews

# Week 17 Jan 4-8 Unit:

By Meagan

Math Standard: 7.2.4.1

**MN Benchmarks:** Represent relationships in various contexts with equations involving variables and positive and negative rational numbers. Use the properties of equality to solve for the value of a variable. Interpret the solution in the original context.

#### **Lesson / Activities:**

- Writing and Solving Equations Scavenger Hunt - <a href="https://www.teacherspayteachers.com/Product/A-CED1-Writing-and-Solving-Equation">https://www.teacherspayteachers.com/Product/A-CED1-Writing-and-Solving-Equation</a> s-Scavenger-Hunt-2084684
- Writing and Solving Equations Performance Task (Putting on a Show) https://www.teacherspayteachers.com/Product/Putting-on-a-Show-Writing-and-Solving
   -Equations-PBL-1799653
- Writing Equations Foldable https://www.teacherspayteachers.com/Product/Writing-Equations-Inequalities-to-Represent-Situations-Foldables-Distance-2659968

# Week 18

Jan 11-15 (Early release on the 15th)

Unit: Focus:

By: Meagan

Math Standard: 7.2.4.2

**MN Benchmarks:** Solve equations resulting from proportional relationships in various contexts.

- Proportion Word Problems Escape Room https://www.teacherspayteachers.com/Product/Proportions-Word-Problems-Game-Escape-Room-Math-Activity-3887570
- Proportions Murder Mystery Activity -

https://www.teacherspayteachers.com/Product/Ratios-and-Proportions-Activity-Murder - Mystery-Digital-Printable-Activity-3786837?utm\_source=Pinterest&utm\_campaign=Proportions+Mini+Mystery

- Mario Kart Proportion Worksheet https://www.teacherspayteachers.com/Product/Mario-Kart-Proportion-Word-Problems-for-Distance-Learning-4934694
- Proportions Scavenger Hunt https://www.teacherspayteachers.com/Product/Unit-Rates-Ratios-and-Proportions-Scavenger-Hunt-2823188

# Week 19 Jan 19-22 (FOUR DAY WEEK) Unit:

By: Meagan

MN Benchmarks: 7.3.1.1

<u>Math Standard</u>: Demonstrate an understanding of the proportional relationship between the diameter and circumference of a circle and that the unit rate (constant of proportionality) is  $\pi$ . Calculate the circumference and area of circles and sectors of circles to solve problems in various contexts.

- Circle Discovery Activity <a href="https://www.teacherspayteachers.com/Product/Radius-Diameter-Circumference-of-a-c">https://www.teacherspayteachers.com/Product/Radius-Diameter-Circumference-of-a-c</a> ircle-Activity-Discovery-532910
- Area and Circumference of Circles Bingo -<a href="https://www.teacherspayteachers.com/Product/Area-and-Circumference-of-a-Circle-Activity-BINGO-4425927">https://www.teacherspayteachers.com/Product/Area-and-Circumference-of-a-Circle-Activity-BINGO-4425927</a>
- Area and Circumference of Circles Activity -<a href="https://www.teacherspayteachers.com/Product/Finding-the-Area-and-Circumference-o-f-Circles-Activity-1834955">https://www.teacherspayteachers.com/Product/Finding-the-Area-and-Circumference-o-f-Circles-Activity-1834955</a>
- Area of Sectors Coloring Activity https://www.teacherspayteachers.com/Product/CIRCLES-AREA-OF-A-SECTOR-COL
   ORING-ACTIVITY-QUILT-AND-PI-DAY-DESIGN-2494522

# Week 20 Jan 25-29 Unit:

By: Meagan

MN Benchmarks: 7.3.1.2

**Math Standard**: Calculate the volume and surface area of cylinders and justify the formulas used.

#### Lesson / Activities:

- Surface Area of Cylinders Maze -<a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927">https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927</a>
   <a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927">https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927</a>
   <a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927">https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927</a>
   <a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927">https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927</a>
   <a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927">https://www.teacherspayteachers.com/Product/Surface-Area-of-Cylinders-Maze-1927</a>
   <a href="https://www.teacherspayteachers.com/">https://www.teacherspayteachers.com/</a>
   <a href="https://www.teacherspayteachers.com/">https://www.teacherspayteachers.com/</a>
   <a href="https://www.teacherspayteachers.com/">https://www.teacherspayteachers.com/</a>
   <a href="https://www.teacherspayteachers.com/">https://www.teacherspayteachers.com/</a>
   <a href="https://www.teacherspayteachers">https://www.teacherspayteach
- Surface Area of a Cylinder Dissection -<a href="https://www.teacherspayteachers.com/Product/Surface-Area-of-a-Cylinder-Dissection-Investigation-Activity-1675985">https://www.teacherspayteachers.com/Product/Surface-Area-of-a-Cylinder-Dissection-Investigation-Activity-1675985</a>
- Popcorn Cylinders Activity -<a href="https://illuminations.nctm.org/uploadedFiles/Content/Lessons/Resources/6-8/Popcorn-AS-Cylinders.pdf">https://illuminations.nctm.org/uploadedFiles/Content/Lessons/Resources/6-8/Popcorn-AS-Cylinders.pdf</a>

Week 21 Feb 1-5

Unit:

Focus:

By: Beth

MN Benchmarks: 7.3.2.1, 7.3.2.2

<u>Math Standard</u>: Describe the properties of similarity, compare geometric figures for similarity, and determine scale factors.

Apply scale factors, length ratios and area ratios to determine side lengths and areas of similar geometric figures.

- Similar or Not card set
  - https://www.teacherspayteachers.com/Product/Similar-Shapes-Polygons-Card-Sort-2794506?pp=1
- Similar Figures Activity Crack the Code
  - https://www.teacherspayteachers.com/Product/Similar-Figures-Activity-Crack-t he-Code-3908113
- Scaling Up Candy Wrappers
  - <a href="http://fasttimesofamiddleschoolmathteacher.blogspot.com/2013/01/scaling-up-candy-wrappers.html?spref=tw">http://fasttimesofamiddleschoolmathteacher.blogspot.com/2013/01/scaling-up-candy-wrappers.html?spref=tw</a>
- Designing a Soccer Field
  - <a href="http://web.archive.org/web/20060127191845/http://www.ioncmaste.ca/homepage/resources/web\_resources/sportcourt/sportcourt\_files/soccer/soccer.htm">http://web.archive.org/web/20060127191845/http://www.ioncmaste.ca/homepage/resources/web\_resources/sportcourt/sportcourt\_files/soccer.htm</a>

# Week 22

Feb 8-9

Unit:

Focus:

By Beth

MN Benchmarks: 7.3.2.3

<u>Math Standard</u>: Use proportions and ratios to solve problems involving scale drawings and conversions of measurement units.

# Lesson / Activities: (Continue same as last week)

- Treasure Map-Scale Factor Island
  - https://www.teacherspayteachers.com/Product/Treasure-Map-Scale-Factor-Isla nd-4300355
- Proportions and Scale Drawings
  - https://www.ck12.org/book/ck-12-middle-school-math-grade-6/section/8.4/
- Scaling up!
  - o <a href="https://mathsolutions.com/ms">https://mathsolutions.com/ms</a> classroom lessons/scaling-up/
- Scale and Proportion-Planning a Trip
  - https://www.teacherspayteachers.com/Product/Scale-and-Proportion-Planninga-Trip-Activity-1491166

Feb 16-19 (FOUR DAY WEEK)

Unit: Focus:

By Beth

MN Benchmarks: 7.3.2.4

**Math Standard:** Graph and describe translations and reflections of figures on a coordinate grid and determine the coordinates of the vertices of the figure after the transformation.

#### Lesson / Activities:

- Manipulative:
  - Pegboard
- Transformations Notebook Page
  - http://forloveoflearning.weebly.com/math/transformations-notebook-pages
- Translations and Reflections
  - https://teacher.desmos.com/activitybuilder/custom/583a09241f6713ff1b0c970d
- Effects of Translation Map
  - https://www.teacherspayteachers.com/Product/Translations-Maze-Digital-Resource-4609663
- 11 Easy Activites For Teaching Effects of Transformation
  - https://ideagalaxyteacher.com/11-easy-activities-teaching-effects-transformations/

# Week 24

Feb 22-26 (End of Trimester)

Unit: Focus:

By Beth

MN Benchmarks: 7.4.1.1

<u>Math Standard</u>: Design simple experiments and collect data. Determine mean, median and range for quantitative data and from data represented in a display. Use these qualities to draw conclusions about the data, compare different data sets, and make predictions.

- Manipulative:
  - different colored blocks/tiles
     http://literacymathideas.blogspot.com/2014/08/teach-mean-median-mode-in-ha

nds-on-way.html?showComment=1409519684011#c6754119964533191825

- Cup Stacking: Mean, Median, and Mode
  - <a href="http://crazinessinfifth.blogspot.com/2016/01/cup-stacking-mean-median-mode-range.html">http://crazinessinfifth.blogspot.com/2016/01/cup-stacking-mean-median-mode-range.html</a>
- Roll-A-Dice Activity
  - https://www.teacherspayteachers.com/Product/Roll-A-Dice-Activity-Mean-Medi an-Mode-and-Range-5335794
- The Mean, Median, and Mode Card Game
  - https://www.education.com/activity/article/Mean Mode fifth/

#### Week 25

Mar 8-12

Unit:

Focus:

By Beth

MN Benchmarks: 7.4.1.2

<u>Math Standard</u>: Describe the impact that inserting or deleting a data point has on the mean and the median of a data set. Know how to create data displays using a spreadsheet to examine this impact.

- Manipulative:
  - Colored blocks/tiles
- Comparing Mean, Median, and Mode
  - https://www.geogebra.org/m/qd7tr6Pr
- Affects of inserting or deleting a data point on the mean or median
  - <a href="https://www.teacherspayteachers.com/Product/Affects-of-inserting-or-deleting-a-data-point-on-the-mean-and-median-2957566">https://www.teacherspayteachers.com/Product/Affects-of-inserting-or-deleting-a-data-point-on-the-mean-and-median-2957566</a>
- How changes to the Data Chang the Mean, Median, and Mode
  - https://www.kristakingmath.com/blog/effect-on-mean-median-mode-by-changing-the-data

Mar 15-19 (Early Release on the 19th)

Unit:

Focus:

By Beth

MN Benchmarks: 7.4.2.1

<u>Math Standard</u>: Use reasoning with proportions to display and interpret data in circle graphs (pie charts) and histograms. Choose the appropriate data display and know how to create the display using a spreadsheet or other graphing technology.

# **Lesson / Activities:**

- Creating a Histogram with your Students
  - https://www.post-it.com/3M/en\_US/post-it/ideas/articles/How-to-make-a-histogr am-to-visualize-data-and-solve-problems/?utm\_medium=redirect&utm\_source =vanity-url&utm\_campaign=www.post-it.com/3M/en\_US/post-it/ideas/articles/histogram/
- Histogram Buckets!
  - <a href="http://slightlyskewedhsmath.blogspot.com/2015/10/teaching-histograms-histograms-histogram-buckets.html">http://slightlyskewedhsmath.blogspot.com/2015/10/teaching-histograms-his
- Analyzing Data with Thanksgiving Pie Chart
  - https://www.teacherspayteachers.com/Product/Analyzing-Data-with-Thanksgiving-Pie-Charts-for-Science-or-Math-4944098

Week 27 Mar 22-26 Unit: Focus:

By Beth

MN Benchmarks: 7.4.3.1

<u>Math Standard</u>: Use random numbers generated by a calculator or a spreadsheet or taken from a table to simulate situations involving randomness, make a histogram to display the results, and compare the results to known probabilities.

- Manipulative:
  - Colored blocks/tiles
- Tinkerplots
  - http://www.tinkerplots.com/activities/randomness-and-chance-activities
- Make Your Own Histogram
  - https://www.mathsisfun.com/data/data-graph.php
- Comparing Results
  - https://www.oercommons.org/courseware/lesson/4120/overview

# Week 28

Mar 29-April 1 (FOUR DAY WEEK)

Unit: Focus:

By Beth

MN Benchmarks: 7.4.3.2

**Math Standard**: Calculate probability as a fraction of a sample space or as a fraction of area. Express probabilities as percents, decimals and fractions.

- Manipulative
  - Fraction Tiles
- Math Spaces
  - o <a href="https://www.mathgoodies.com/lessons/vol6/sample\_spaces">https://www.mathgoodies.com/lessons/vol6/sample\_spaces</a>
- Garbage Can Basketball
  - https://www.teacherspayteachers.com/Product/Probability-Fun-Games-Exploring-fractions-decimals-percentages-more-996269
- Percent Activity
  - http://www.mathactivities.net/lessons/percent-activity.htm
- Converting Fractions, Decimals, and Percents Math Stations Activity
  - https://www.teacherspayteachers.com/Product/Converting-Fractions-Decimalsand-Percents-Math-Station-Activity-2052704

Week 29
April 5-9
Unit:
Focus:

By

MN Benchmarks: 7.4.3.3

<u>Math Standard</u>: Use proportional reasoning to draw conclusions about and predict relative frequencies of outcomes based on probabilities.

#### Lesson / Activities:

- Proportional Reasoning and Unit Rate task cards
  - <a href="https://www.teacherspayteachers.com/Product/Proportional-Relationships-and-Unit-Rate-Task-Cards-Printable-Digital-Resource-2938103">https://www.teacherspayteachers.com/Product/Proportional-Relationships-and-Unit-Rate-Task-Cards-Printable-Digital-Resource-2938103</a>
- Sugar Packets and Proportions
  - https://mathequalslove.blogspot.com/2012/04/sugar-packets-and-proportions.h tml
- Proportional Reasoning- Capture Recapture Goldfish
  - https://ispeakmath.org/2014/01/13/proportional-reasoning-capture-recapture-wi th-goldfish/

Week 30
April 12-16
Unit:
Focus: Review Week

By Beth

MN Benchmarks: Review Week

**Math Standard:** 

# Lesson / Activities:

Jeopardy

# Week 31 April 19-23 (MCAs APRIL 20TH) Unit: Focus: By MN Benchmarks: Math Standard: Lesson / Activities: