

7th Grade Math



EDGEWOOD
CAMPUS SCHOOL

2019-2020

Mrs. Fran Vizek

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Mathematical Practice Goals: Students will

- Accurately choose, communicate and apply computational methods used for real life applications
- Be able to apply math skills and problem solving strategies to solve multiple-step problems
- Communicate mathematical ideas and reasoning effectively and demonstrate appropriate use of vocabulary.

Curriculum Content Goals:

- Explore properties of integers
- Examine concept of absolute value
- Extend properties of integers to rational number operations
- Simplify expressions and solve up to two-step algebraic equations algebraically
- Justify the distributive property
- Generate ratios and proportions to represent situations (price comparisons, similar triangles, percents, scale)
- Derive method of cross products to solve proportions
- Model percents, explore applications of percents in statistics and life
- Apply proportions and percents to generation of circle graphs
- Explore compass constructions and use compass constructions to prove basic geometric principles (transversals of parallel lines, congruence of angles and shapes)
- Create scale drawings
- Derive π and apply to area and circumference formulas
- Derive and apply basic area, surface area and volume formulas
- Explore topics in probability (simple & compound events, dependent & independent events)
- Explore topics in statistics (mean, median, mode, range, interpretation of graphs)

Expectations:

- Homework is completed in pencil with both effort and quality, and homework is completed in a timely fashion
- Students come to class prepared daily (homework completed, pencil, notebook, textbook, charged Chromebook, calculator and other requested tools)
- Students are responsible for connecting with teacher regarding missed concepts due to illness or planned absence
- Students should maintain an 85% or higher average

- Students should positively engage in discussions and activities

Assessment:

- Class Participation - 10% (overall effort, participation in discussion, completion of warm-up problems and notes)
- Homework - 30% (daily work, math labs, weekly IXL, notebook checks)
- Tests/Cumulative Reviews/Topic Quizzes - 60%

Helpful Hints:

- Show your work in order to communicate your thought process
- Use correct vocabulary when communicating your work
- Use your resources (book, web tools, classmates)
- Ask for help after you have tried and used your resources
- Stay positive. Mastery does not happen immediately.
- **Be patient with your brain**

Text and Resources:

- www.bigideasmath.com
Username: 7grade006 Password: Math!rocks
- www.desmos.com
- <http://www.mathopenref.com/>
- IXL.com

Communication:

- Email: fvizek@edgewoodk8.com
- Classroom Phone: (608)663-4100 x 4118
- Weekly plan posted in Google Classroom