# Mrs. Fealtman's Class Information & Procedures 8th Grade Math

#### <mark>Class Routine:</mark>

A general routine will be established in the classroom with scaffolded instruction to help students achieve mathematical standards:

- Warm-up assignment
- Active instruction
- Whole class practice
- Team practice
- Independent practice
- Exit ticket

Collaborative Learning: Students will develop collaborative learning skills by working in math teams within the classroom. Each math team will consist of four team roles that the students will rotate through:

- Project Manager
- Resource Manager
- Account Manager
- Task Manager

Teams that follow the P.A.W.S. acronym the best will be rewarded each month!

- P prepared for class and participating
- A assignments completed
- W working together
- S staying on task and following directions

## Student Behavior:

- Students will have the opportunity to earn tokens for the kiosk or C.A.R.E. tickets for demonstrating consistently good behavior and showing Bulldogs C.A.R.E. actions.
- Students will earn participation in quarterly grade-level PBIS reward activities through good behavior and good academics in all of their classes.
- A Last to Lunch or Lunch Detention will be issued for minor behavior issues
- Three Lunch Detention consequences will result in a phone call to parents/guardians and an office referral.
- Major behavioral infractions will result in an immediate office referral and phone call to parents/guardians.

Google Classroom Join Codes:

1st Period Math 3rd Period Math 5th Period Math 6th Period Math

ojs7lxb uva7xt3 vfcpmr2 oxjm66j

Tips for Success:

- check google classroom for announcements, schedules, and extra resources
- check Aspen frequently
- be a team player so that your math group has a better chance of being rewarded throughout the school year
- pay attention in class because I use random reporter heavily
- keep notes organized, especially because the curriculum builds on previous concepts and skills
- Follow all school rules outlined in the student handbook Bulldogs C.A.R.E!

## Grading:

Classwork and Homework (30%)

- Warm-ups, homework assignments, class activities and tasks, online assignments, etc.
- Late classwork or homework will be accepted before the next assessment and will not receive higher than a 50%

Assessments (70%)

- Mid-unit assessments, end-of-unit assessments, performance assessments, projects, etc.
- Assessment Retake policy:
  - Turn in corrections for incorrect questions from the assessment with work supporting the corrected answer
  - Schedule retake with teacher
  - Retry missed questions on a different version of original assessment

## Problem-Based Learning

- focuses on the students spending their time in class working on a sequenced set of problems designed to help them establish mathematical takeaways
- Rather than showing students how to do a problem, the teacher asks students questions and helps guide collaborative discussions so the students can develop their own thinking and understanding of a concept
- Students collaborate with each other frequently, share their own ideas about problems, and listen to others' ideas(Illustrative Math)

## Student Expectations for Problem-Based Learning:

- Come up with "rough-draft" ideas for solving problems.
- Try something if you're stuck; Draw a picture, take a guess, write what you notice, describe a wrong answer, etc.
- Understand that you will make mistakes and your first ideas will often need to be refined.
- Share your thinking, ideas, and questions with your peers and teacher. You do not have to be confident right away!
- Listen to your peers' ideas and critique them (good and bad).
- Write down important notes when collaborating and during lesson summaries.

**Curriculum:** 8th Grade Mathematics - Illustrative Mathematics

- 1. Rigid Transformations & Congruence
  - Translations, reflections, rotations
  - Congruent figures
- 2. Dilations, Similarity, & Introducing Slope
  - Dilations and similar figures
  - Early introduction to slope
- 3. Linear Relationships
  - Proportional relationships
  - Slope-intercept form equations
  - Finding slope
  - Solutions of linear equations
- 4. Linear Equations & Linear Systems
  - Solving equations
  - Solving systems of equations



- 5. Functions & Volume
  - Properties of functions and linear functions
  - Rate of change/slope
  - Volume of cones, cylinders, and spheres
- 6. Associations in Data
  - Scatter plots
  - Two-way tables
  - Predictions with data
- 7. Exponents & Scientific Notation
  - Properties of exponents
  - Converting with scientific notation
  - Solving problems with scientific notation
- 8. Pythagorean Theorem & Irrational Numbers
  - Pythagorean Theorem
  - Identifying and Estimating Irrational
    Numbers

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Let's make your final year at the middle school a successful and pawsitive experience!

Mrs. Chloe Fealtman