

Algebra I 2018-2019
Beaverhead County High School
Instructor - Ms. Gentry



Common Core Mathematical Practices:

1. Make sense of problems and persevere in solving them
2. Reason Abstractly and Quantitatively
3. Construct viable arguments and critique the reasoning of others.
4. Model with Mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

During this course students will:

Interpret the structure of expressions (A-SSE 1-2)(these are the common core standards)

Write expressions in equivalent forms to solve problems (A-SSE 3)

Perform arithmetic operations on polynomials (A-APR 1)

Understand the relationship between zeros and factors of polynomials (A-APR 3)

Use polynomial identities to solve problems (A-APR 4)

Rewrite rational expressions (A-APR 6-7)

Create equations that describe numbers and relationships (A-CED 1-4)

Understand solving equations as a process of reasoning and explain the reasoning (A-REI 1-2)

Solve equations and inequalities in one variable (A-REI 3,4)

Solve systems of equations (A-REI 5-7)

Represent and solve equations and inequalities graphically (A-REI 10-12)

Understand the concept of a function and use function notation (F-IF 1-3)

Interpret functions that arise in applications in terms of the context (F-IF 4-6)

Analyze functions using different representations (F-IF 7-9)

Build a function that models a relationship between two quantities (F-BF 1-2)

Build new functions from existing functions (F-BF 3-4)

Construct and compare linear, quadratic, and exponential models and solve problems (F-LE 1-3)

Interpret expressions for functions in terms of the situation they model (F-LE 5)

Experiment with transformations in the plane (G-CO 1-3,5)

Summarize, represent, and interpret data on a single count or measurement variable (S-ID 1-4)

Summarize, represent, and interpret data on two categorical and quantitative variables (S-ID 5-6)

Interpret linear models (S-ID 7-9)

Understand and evaluate random processes underlying statistical experiments (S-IC 1-2)

Make inferences and justify conclusions from sample surveys, experiments & observational studies (S-IC 3-5)

Understand independence and conditional probability and use them to interpret data (S-CP 1-4)

Use probability rules to compute probabilities of compound events in a uniform probability model(S-CP 6-9)

Extend the properties of exponents to rational exponents (N-RN 1-2)

Reason quantitatively and use units to solve problems (N-Q 1-3)

Extra Help:

Students can arrange to see me for extra help after school, during lunch or during my prep time when I am not in meetings.

There are at least two computer resources available to students: classzone.com goes with our book and also hotmath.com which our school subscribes to. The password for the hotmath site is MDR185

Grading:

Total points system

Typically 10 points/homework assignment (3-5 times/week) adding up to approximately 40% of the total points/quarter

Projects—includes question of the day and a variety of other hands-on activities. Approximately 10-20%

Quizzes/Tests—approximately 40%

Extra Credit: about 10-15 points/quarter. *Additional extra credit will NOT be given to make up for poor/missing grades.

We will be using the Geogebra program – available to download for free. Students MUST have their handbook forms turned in before using school computers. Please be sure to get these forms turned in promptly.

Late assignments:

Students are expected to complete and turn in their homework on time. Late assignments will receive **at most** half credit. Students with excused absences will be allowed the allotted time to complete a missing assignment as described in the student handbook. Missing work: Question of the day **cannot** be made up, other work can until a date given by me—typically a few days before the end of the qtr.

Required Supplies:

Pencils - to be used for homework and tests – pens for correcting only

Paper (Perforated is preferred)

Calculator (TI 30 scientific is recommended – generally about \$12)*I have a limited number that can be checked out during class time only. If not checked in at end of class the replacement cost will need to be paid by the student.

We will also be using graphing calculators in group work occasionally. If a student plans to take more years of math a graphing calculator would be a good investment.

Recommended Supplies:

A notebook designated for math class

Classroom Rules (these are in addition to the student handbook):**B e Responsible**

Follow rules as outlined in handbook

Request and return makeup work in timely fashion

Head papers correctly

Ask permission to leave the room & take the hall pass

Keep aisles clear

Use class time wisely

Return classroom supplies to proper location and in good condition

C ome Prepared

Arrive on time

Have a positive attitude ~ ready to learn

Use restroom, sharpen pencils, etc. between classes when possible.

Bring supplies: sharpened pencil, paper, book, etc.

H ave Good Character

Encourage your classmates

Be polite

Listen and participate

Take ownership for actions

Do your own work ~ remember *learning* is the goal

S how Respect

Enter and exit room quietly

Be in assigned seat working on ? of the day as soon as the 2nd bell rings

Raise hand to ask/answer questions

Sit properly *in* desks

Keep items from going airborne

Remain seated until the bell rings ~ teacher dismisses class

Consequences

* The "Look"

* Quiet talk with teacher

* Hall talk with teacher

* New seating assignment

* Stay after class/school

* Sweep after class or school *for throwing/tossing

* Call to parents

* Office referral- minor or major

* Office visit during class(0 for the day)

*Remember the 8 keys of excellence
bound together by the ring of respect!*

➤ *Integrity* ➤ *Failure Leads to Success*
➤ *Speak with Good Purpose* ➤ *Commitment* ➤ *This is It!*
➤ *Ownership* ➤ *Flexibility* ➤ *Balance*