GEOMETRY 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:

Experiment with transformations in the plane (G-CO 1-5) *(these are the common core standards)*
Understand congruence in terms of rigid motions (G-CO 6-8)
Prove Geometric theorems (G-CO 9-11)
Make Geometric constructions (G-CO 12-13)
Understand similarity in terms of similarity transformations (G-SRT 1-3)
Prove theorems involving similarity (G-SRT 4-5)
Define Trigonometric ratios and solve problems involving right triangles (G-SRT 6-8)
Apply trigonometry to general triangles. (G-SRT 9-11)
Understand and apply theorems about circles (G-C 1-5)
Use coordinates to prove simple geometric theorems algebraically (G-GPE 4-7)
Explain volume formulas and use them to solve problems (G-GMD 1-4)
Apply geometric concepts in modeling situations (G-MG 1-3)
Extend properties of exponents to rational exponents (N-RN 2)
Reason quantitatively and use units to solve problems (N-Q 1)
Represent and model with vector quantities (N-VM 1-9, 11, 12)
Interpret the structure of expressions (A-SSE 1-2)
Create equations that describe numbers and relationships (A-CED 1, 2, 4)
Solve equations and inequalities in one variable (A-REI 3,4)
Solve systems of equations (A-REI 6)
Represent and solve equations and inequalities graphically (A-REI 12)
Understand the concept of a function and use function notation (F-IF 3)
Analyze functions using different representations (F-IF 7)
Summarize, represent, and interpret data on a single count or measurement variable (S-ID 1)
Interpret linear models (S-ID 7)
Understand and evaluate random processes underlying statistical experiments (S-IC 1)
Understand independence and conditional probability and use them to interpret data (S-CP 2, 3)

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%
Positive Participation grade- 10% (participation in class discussions, using class time wisely, coming prepared, etc.)
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.

Extra Help:
Students can arrange to see me for extra help after school, during lunch or during my prep time.
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

Required Supplies:
Pencils - to be used for homework and tests – pens for correcting only
Paper (Perforated is preferred)
Compass
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.
A notebook designated for math class

Recommended Supplies:
Protractor
Ruler
Graph Paper Notebook

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*