

Please note that all grading of an 2<sup>nd</sup> Semester Alternate Final Exam is at the teacher's discretion as it is in place of the Actual Final Exam which can still be attempted and completed to potentially earn an "A" if the 2<sup>nd</sup> Semester Alternate Final Exam is insufficient. This includes a very hard set deadline of the end of your class period on Monday, June 6<sup>th</sup>. 2<sup>nd</sup> Semester Alternate Final Exams will not be accepted and cannot be worked on or improved after this deadline.

Additional resources are available via <http://mrbrianklee.weebly.com/>. If you have any questions or when you are ready to submit the assignment please contact Mr. Klee through his e-mail [bklee@ccs.coloma.org](mailto:bklee@ccs.coloma.org).

Regardless of the type of 2<sup>nd</sup> Semester Alternate Final Exam chosen, several topics listed below must be clearly covered. Additional requirements for the 2<sup>nd</sup> Semester Final Exam will be listed after these topics.

### **Basic Content Guidelines:**

#### ***Chapter 6 – Quadrilaterals***

- The Sum of the Interior Angles of a Quadrilateral is  $360^\circ$
- Classification of Quadrilaterals using their properties
- Finding the Area of Quadrilaterals

#### ***Chapter 7 – Transformations***

- Translations of a Pre-Image to an Image
- Reflections of a Pre-Image to an Image
- Rotations of a Pre-Image to an Image

#### ***Chapter 8 – Similarity***

- Ratios and Proportions (including scale factors)
- AA, SSS and SAS Similarity
- Dilations: Enlargement scale factors or Reductions scale factors

#### ***Chapter 9 – Right Triangles & Trigonometry***

- Similar Right Triangles
- 30-60-90 and 45-45-90 Facts
- Pythagorean Theorem and Converse of Pythagorean Theorem
- Solving Right Triangles (finding missing angles and side lengths using trigonometry)

#### ***Chapter 10 – Circles***

- Central Angles, Inscribed Angles & Arcs
- Chords, Tangents & Secants
- Equations of Circles on the Coordinate Plane

#### ***Chapter 11 – Area of Polygons & Circles***

- Arc Length on a Circle (this is a fraction of the circumference)
- Areas of Sectors of a Circle (this is a fraction of the area)

#### ***Chapter 12 – Surface Area & Volume***

- Surface Area and Volume of Prisms & Cylinders
- Surface Area and Volume of Pyramids and Cones

**Possible Alternate Final Exams and Requirements:**

Additional consideration will be given to any of the following if submitted by Friday, June 3<sup>rd</sup>.

***(60% to 65% Max Grade) Vocabulary Word Search - Individual***

- At least 3 vocab words from each chapter must be included (see guidelines for words)
- An answer key must be provided
- Digitally created and shared material may receive additional consideration

***(70% to 75% Max Grade) Vocabulary Cross Word Puzzle - Individual***

- The definitions of at least 3 vocab words from each chapter must be included (see guidelines for words)
- An answer key must be provided
- Digitally created and shared material may receive additional consideration

***(80% to 95% Max Grade) Create a Song – Groups of 5 or less students***

- The song is recorded and shared with Mr. Klee (via e-mail or as posted on YouTube)
- At least two of the guidelines from each chapter must be clearly demonstrated through the lyrics
- Supporting visuals clearly and accurately support the content covered by the lyrics
- Outstanding beats and well-choreographed dances may receive additional consideration

***(90% to 100% Max Grade) Create 6 Chapter Review Kahoots! – Pairs of 2 students or Individual***

- Problems cover the guidelines from each chapter with correct answers and supporting work turned-in
- Problems have a range in difficulty and appropriate corresponding answer times (2 easy, 2 medium, 2 hard)
- Incorrect answer choices include commonly made mistakes or misconceptions
- At least 3 real-life “story problems” are included, each of which is from different chapters
- The use of supporting visuals or additional real-life “story problems” may receive additional consideration