

## Mrs. Hagens Geometry Class Syllabus

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straight edge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in college and career §111.C. High School Page 10 October 2015 Update readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their postsecondary education.

1. The six weeks grade will be determined by the following:

Regular Ed	Test Average 50%	Daily Average 50%
Honors	Test Average 60%	Daily Average 40%

Each regular ed six week grade will include 2 major grades (tests/projects) and Honors classes will have 3 major grades.

The final six week average in Honors will be increased by 10 points at the end of each six week period.

Honors students must maintain at least an 85 average each six weeks to remain in an honors class.

2. All daily assignments are due the following school day. Late assignments are penalized ten points per day late.  
If your child is absent, the school handbook policy will be followed.
3. Students are expected to come to my class each day with:

1. A writing utensil.
  2. A math spiral notebook.
  3. A math folder with pockets.
  4. A **TI-30XIIS** calculator (graphing calculators will not be allowed in class).
4. Students are expected to take notes each day and then work quietly during class on their math assignment. Students not on task will be assigned detention at 7:30 a.m. in my classroom.
  5. Tutorials are in my classroom at 7:30 a.m. Please encourage your child to come in for help. Re-tests for a 70 maximum grade in regular ed are also given at 7:30 a.m. Your child must schedule a re-test with me.
  6. Cell phones must be turned **off** and kept in a backpack. Smart watches must also be kept in a backpack. No exceptions.

Please email me at [hagensp@shinerisd.net](mailto:hagensp@shinerisd.net) if you have any questions or would like an update on your child's progress at any time. My phone extension is 212.

I am looking forward to a fantastic year!

Thank-you,

Pattye Hagens