

# Geometry 2011-2012

## Mrs. Cyr's Grading Policy

### Welcome to Geometry!

Now that you have successfully met the standards for Algebra I, I am excited to explore the application of what you learned to the study of points, lines, planes, and solids, a.k.a. Geometry. Together we will be discovering the relationships among figures and exploring the relationships between geometry topics and real-life situations.

### Grading

Your grades will be determined by student product only. All graded tasks will fall into one of three categories:

#### *Level 1: 40% of your grade*

- $\pi$  Tests
- $\pi$  Performance Assessments
- $\pi$  Research

#### *Level 2: 30% of your grade*

- $\pi$  Quizzes
- $\pi$  Writing Assignments
- $\pi$  Short Performance Assessments (TBA)
- $\pi$  Binder

#### *Level 3: 30% of your grade*

- $\pi$  Daily Homework
- $\pi$  Skill Checks
- $\pi$  Daily Classroom Activities

### Citizenship

Though the following expectations are not a part of your grade in this course, visitors, your peers, and I, expect to observe the following on a daily basis:

- $\pi$  Come to class prepared
- $\pi$  Have a positive attitude
- $\pi$  Always try your best
- $\pi$  Participate in class discussions and activities with an open mind
- $\pi$  Think before you speak
- $\pi$  Respect others and yourself

## Semester One

### Foundations for Geometry

- Points, Lines, and Planes
- Constructions
- Midpoint and Distance Formulas and on the Coordinate plane
- Transformations on the Coordinate Plane

### Parallel and Perpendicular Lines

- Lines and transversals and angles formed
- Perpendicular lines
- Slopes of parallel and perpendicular lines

### Triangle Congruence

- Proving triangles congruent by
  - SSS, SAS, AAS, ASA, HL, CPCTC

### Properties and Attributes of Triangles

- Perpendicular and angle bisectors
- Medians and altitudes
- Midsegment Theorem
- The Pythagorean Theorem
- Applying special right triangles

### Polygons and Quadrilaterals

- Properties and attributes of polygons, kites, trapezoids, parallelograms

## Semester Two

### Similarity

- Ratio and proportion
- Similar polygons
- Applying properties of similar triangles
- Using proportional relationships
- Dilations and similarity on the coordinate plane

### Right Triangles and Trigonometry

- Similarity in right triangles
- Trigonometric ratios
- Solving right triangles
- Angles of elevation and depression

### Extending Perimeter, Circumference, Area and Spatial Reasoning

- Developing formulas for perimeter, circumference, and area
- Composite figures
- Three dimensional figures (nets)
- Surface area and volume of Prisms, Cylinders, Pyramids, Cones, and Spheres

### Circles

- Arcs and chords
- Sector area and arc length
- Inscribed angles
- Angle and segment relationships in circles

### Extending Transformational Geometry

- Reflections
- Translations
- Rotations
- Compositions of transformations
- Dilations

## Required Materials

- π **Textbook.** This must be covered at all times.
- π **Pencils** are abso-tuten-lutely required to do class and homework; good idea to carry two
- π **Pen** (not black) to correct work
- π **Binder (1-1.5 in.) with loose-leaf paper** This binder should be for math only. We will discuss how to organize your binder and I will occasionally collect and grade it. No zip binders please.
- π A scientific **calculator**
- π **Compass** and **protractor** (optional)

- π For each day you miss school, you will have **one day to see me** about making up the assignment for that class
- π If for some reason you have to retake a test or quiz, you will have one week from the day the test is returned to you, to receive remediation and to do the retake
- π All work must be done in pencil or *you will not receive credit*
- π **Parents:** You may reach me at school if you have any questions or concerns. **728-3371 ext. 304** or via e-mail at [ncyr@madawaskaschools.org](mailto:ncyr@madawaskaschools.org)

**Extra Help**

**Blue Days** block 2  
**Before school**, after 7:15  
**After school**, until 4 pm

Whenever possible, please sign up in my planner so I know when to expect you.

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Please return this portion to me.  
I have read and understand the grading policy and course requirements.

\_\_\_\_\_  
Student's signature

\_\_\_\_\_  
Parent's signature

Comments or questions:

\_\_\_\_\_  
Parent's e-mail address (optional but helpful)