



# Math Grade 8 2013-2014 Course Syllabus

US5016y

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Teacher:	Ms. Amy Bowley
Room Number:	Hongqiao Campus C320
Office Hours:	Tuesday 3:30 – 4:30
E-Mail Addresses:	<a href="mailto:abowley@scischina.org">abowley@scischina.org</a>
Course Website:	<a href="http://teachersh.scis-his.net/abowley">teachersh.scis-his.net/abowley</a>
School Website:	<a href="http://hq.scis-his.net">hq.scis-his.net</a>

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## Course Description

In Grade 8 Math, students build an understanding of real numbers by using symbolic, graphic, and numeric representations as they solve equations and inequalities. Work with rational and radical expressions, equations, and functions build a wide base of experience with rational and irrational numbers.

## Learning Resources

- Math Textbook Prentice Hall Algebra 1 (Provided in hardcopy and digital format)
- Selected Internet Sites
- Teacher generated worksheets and practice problems

## Student Supplies

Students are expected to bring the following to class each day:

- Math Notebook
- Pencils
- Ruler
- Scientific Calculator
- Laptop

## Classroom Expectations

**Homework:** Homework is given after each class as a way of enforcing and practicing what was learned in the class lesson. Students are expected to complete each homework assignment in their math notebook. Homework should be neatly written with the student's work visible and easy to follow. Answers are provided for most homework problems and it is the student's responsibility to check the answers to make certain that homework is done correctly. Homework assignments will be posted on the class website for students to check. It is the

responsibility of the student to check the website daily for homework assignments and extra practice problems.

Homework is assigned by level. Students are able to choose the level of homework assignment they would like to complete for each lesson. Standard level (Green) covers the standard or basic level that every student should have mastered by the end of the unit. Advanced level, (Blue) can be done by students who have already mastered the standard level assignment and want more of a challenge in the same topic area. Students may choose the level of homework they wish to complete after deciding how comfortable they feel with the lesson.

**Late/Missing Work:** Students are expected to have all homework assignments completed by the beginning of class the day the assignment is due. Late work is accepted no more than one class meeting later than the due date and will be given half credit. Students may not receive credit for any homework assignment done later than one class meeting after the due date, however, students are encouraged to still complete all assignments in order to assure mastery of all topics covered in each unit.

**Absences:** After an excused absence, it is the student's responsibility to find out what she or he missed and turn it in according to SCIS policy found in the student handbook.

**Plagiarism:** Plagiarism occurs when one uses the work or ideas of another without giving the source credit, or when the work or ideas of another are not put into the student's own words and style. Please refer to the student handbook for greater detail. ***Any student who plagiarizes an assignment will be given a zero for that assignment***

**Extra Help:**

Should a student need extra help, s/he is encouraged to make an appointment for a meeting with the teacher before school, during break or lunch or after school. I will always be available Tuesdays from 3:30 – 4:30.

**Assessments:**

Both formative and summative assessments will be used throughout the year in order to gauge student progress. Quizzes will be given partway through each unit and tests will be given at the end of each unit. Students are able to choose their level of assessment, standard or advanced, based on the level of homework that they have completed for the unit as well as their level of comfort with the material.

**Plan of Study:**

<b>Semester One Units</b>	<b>% of Semester Grade</b>
Dispositions Score – Homework completion and classwork	10%
Basic Skills Reviews – general math skills reviewed during each 8 day cycle	5%
Unit 1 - Algebra Review <ul style="list-style-type: none"> <li>Translating and Solving Variable Expressions and Equations</li> <li>Real Numbers and the Number Line</li> <li>Functions</li> </ul>	20%
Unit 2 – Rational Numbers and Probability <ul style="list-style-type: none"> <li>Operations with Rational Numbers</li> <li>Probability</li> </ul>	20%
Unit 3 – Solving Equations <ul style="list-style-type: none"> <li>Solving One-Step and Multi-Step Equations</li> <li>Solving Equations with Variables on Both Sides</li> </ul>	30%
Unit 4 – Inequalities <ul style="list-style-type: none"> <li>Solving Inequalities</li> <li>Graphing Inequalities</li> </ul>	15%
<b>SEMESTER TOTAL</b>	<b>100%</b>

<b>Semester Two Units</b>	<b>% of Semester Grade</b>
Dispositions Score – Homework completion and classwork	10%
Basic Skills Reviews – general math skills reviewed during each 8 day cycle	5%
Unit 5 - Graphs and Functions <ul style="list-style-type: none"> <li>Solving and graphing functions</li> <li>Direct and inverse variation</li> </ul>	20%
Unit 6 – Linear Equations and their graphs <ul style="list-style-type: none"> <li>Graph from slope intercept form</li> <li>Point slope form</li> <li>Graphing parallel and perpendicular lines</li> </ul>	20%
Unit 7 – Systems of Equations <ul style="list-style-type: none"> <li>Solving system of equations using graphing, elimination, and substitution</li> </ul>	10%
Unit 8 – Polynomials and Factoring <ul style="list-style-type: none"> <li>Operations with polynomial</li> <li>Factoring trinomials</li> </ul>	20%
Unit 9 – Quadratic Equations and Functions <ul style="list-style-type: none"> <li>Solving quadratics by factoring, completing the square, and using the quadratic formula</li> </ul>	15%
<b>SEMESTER TOTAL</b>	<b>100%</b>

### **Acknowledgement of Receipt and Understanding**

I have read and discussed the Mathematics 8 course syllabus with my parents. Please sign and return to Mrs. Serrano by next class meeting.

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Student Name

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Student Signature

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Parent Signature