

Course Syllabus

Cicely Tyson Middle/High School
7th Grade Mathematics
Monday-Friday (2 periods per day)
Full year course

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Welcome and Introduction

Welcome to 7th grade mathematics class. I'm your instructor, Mr. Andrews. We'll be working together throughout the 2019-2020 school year. This course is designed to develop students into confident and proficient problem solvers by translating real life situations to mathematical models.

Course Theme (overarching ideal)

The more you know, the more options you have in life. The less you know, the less options you have in life.

Course Goals

This course will help provide a solid foundation for further study in mathematics by targeting the following learning clusters under the New Jersey Student Learning Standards (NJSLS):

- Number Systems (NS) integers, rational numbers, decimals
- Expressions & Equations (EE) expressions, equations, inequalities
- Ratio & Proportions Relationships (RP) complex fractions, percent, unit rate
- Statistic & Probability (SP) absolute mean deviation, random samples, statistical inferences.
- Geometry (G) angles, circumference, perimeter, volume, scale drawing, surface area

Methods of Instruction

Lessons are presented in various forms that include but not limited to be group discussions, hands on activities, use of technology and learning stations.

Course Component Specifics

Students are expected to be respectful to themselves, their peers, the instructor and the overall classroom environment. With the exception of testing, students generally work in groups. Members of a group are required to be equally participative in all discussions, activities and presentations. Lessons within a group should not fall burden to one or two members of a group. The use of personal gadgets (cell phones, tablets, games, toys) is prohibited. Food, beverages, gum and candy are not allowed in the class. Bathroom and water breaks are not permitted during the first and the last 15 minutes of class.

Attendance and Make-Up Work

An absence does not excuse the student from the work they missed. Students are responsible for any make-up work when they are out of class. If student miss a class, that student must make arrangements with the instructor as soon as possible. Students are responsible for getting class notes from a classmate. The number of days a student was absent is the same number of days that will be allowed to make up that assignment.

Absences are recognized for the following reasons:

1. Absences to participate in official school/district activities (performances, field trips, athletic events, etc.)
2. Absences for medical reasons
3. College Visits
4. Pass indicating with Administrator/Guidance/Nurse/CST/Social Worker/Discipline
5. Passes indicating you are with another teacher must be cleared first by the period teacher if you are planning to be more than 10 min. late (optional wording).

Homework Policy

New lessons are followed up with homework. There are generally 3-4 homework assignments a week. All homework assignments are recorded in the homework binder. A student receives a homework grade every week based on the number of homework assignments they completed for that week. Homework must be done in standard format, with a pencil and fully completed in order to receive full credit. Work must be shown in order to get full credit. No credit will be given for homework with just the answers. A parent will be notified, if a student has two or more incomplete assignments in a week.

Grading Policy

Test 30%

Quiz 20%

Project: Project Base Learning 20%

Classwork: 15%

Homework: 15%

Test: Tests are given weekly (Friday) and reflect material covered in that week.

Quiz: Quizzes are given once a week (Tuesday - Thursday) and reflect material covered prior to quiz. A quiz contains 5 short-constructed responses.

Project: Project assignment will be ongoing through the school year and based on a theme. More information will be provided later by mid school year.

Classwork / Station Work : Classwork is done independently while station work is done in a group effort setting.

Homework: See Homework Policy

Grades are updated every Friday after 7pm on the Focus (Parent Portal)

Opportunities for Extra Support

Extra help is available during lunch period and after school by appointment only.

How to Reach Me

See information at the top of syllabus. Email responses will be made within 24-28 hours.

Required text/E-book/Online Resources Used

Name of text(s) required and author(s) Go Math Course 2, Houghton, Mifflin Harcourt 2014
Online Resource Used

Go Math Course 2 Web base: www.myhrw.com Math On the Spot, Interactive Student Edition, Animated Math, Personal Math Trainer

IXL: [https://www.IXL.com](http://www.IXL.com) (subscription needed to access)

Virtual Nerd: <http://www.virtualnerd.com/common-core/all/>

AAAMath: www.aaamath.com

Supplies:

- 1 Spiral notebook with 3 holes (No marble notebook or binders with loose leaf paper)
- Pencils (at least 2)

1st Quarter/Unit Schedule

Unit 1

September 5th – November 15th, 2019

List of Topics / SLO's

- Adding Integers with the same signs
- Adding Integers with the different signs
- Subtracting Integers
- Applying Addition & Subtraction of Integers
- Multiply Integers
- Divide Integers
- Applying Integer Operations
- Rational Numbers & Decimals
- Adding Rational Numbers
- Subtracting Rational Numbers
- Multiplying Rational Numbers
- Dividing Rational Numbers
- Applying Rational Number Operations
- Unit Rates
- Constant Rate of Change
- Proportional Relationships & Graphs

- **Assignments/Projects/ Assessment**
 - Homework assignments are given periodically
 - Weekly Assessments
 - Bi Weekly Reasoning Assessments
 - Unit Assessments after 6 -7 weeks

2nd Quarter/Unit Schedule
Unit 2
November 18th 2019 – January 31st, 2020

List of Topics / SLO's

- Percent Increase & Decrease
- Rewriting Percent Expressions
- Applications of Percent
- Algebraic Expressions
- One Step Equations with Rational Coefficients
- Writing Two Step Equations
- Solving Two Step Equations
- Writing & Solving One Step Inequalities
- Writing Two Step Inequalities
- Solving Two Step Inequalities

- **Assignments/Projects/ Assessment**
 - Homework assignments are given periodically
 - Weekly Assessments
 - Bi Weekly Reasoning Assessments
 - Unit Assessments after 6 -7 weeks

3rd Quarter/Unit Schedule
Unit 3
February 3rd – April 3rd, 2020

List of Topics/SLO's

- Populations & Sample
- Making Inferences from a Random Sample
- Generating Random Samples
- Compare Data Displayed in Dot Plots
- Using Statistical Measures to Compare Populations
- Probability
- Experimental Probability of Simple Events
- Experimental Probability Compound Events
- Making Predictions with Experimental Probability
- Theoretical Probability of Simple Events
- Theoretical Probability of Compound Events
- Making Predictions with Theoretical Probability
- Using Technology to Conduct a Simulations

- **Assignments/Projects/ Assessment**
Homework assignments are given periodically
Weekly Assessments
Bi Weekly Reasoning Assessments
Unit Assessments after 6 -7 weeks

Unit 4
April 6th – June 19th, 2020

List of Topics/SLO's

- Similar Shapes & Scale Drawings
- Geometric Drawings
- Cross Sections
- Angle Relationships
- Circumference
- Area of Circles
- Area of Composite Figures
- Solving Surface Area Problems
- Solving Volume Problems
- **Assignments/Projects/ Assessment**
Homework assignments are given periodically
Weekly Assessments
Bi Weekly Reasoning Assessments
Unit Assessments after 6 -7 weeks