

6th Grade Math 2022 - 2023

Syllabus

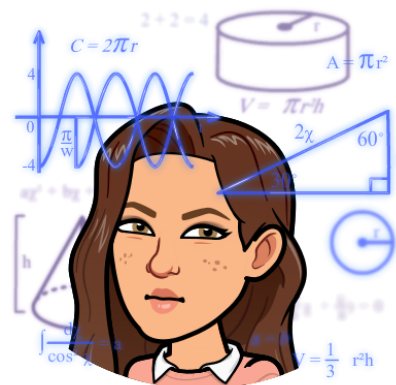
Teachers:

Ms. Brown

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Ms. G

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Mathematics Classroom Expectations

1. Participate in all activities.
2. Ask questions if something is confusing.
3. Show work and attempt to do all the assigned problems during the class period.

Supplies

- Binder used only for Math
- Pencil or black/blue pen.
- Calculator: Texas Instruments TI-34 MultiView Scientific Calculator. If you are unable to get this calculator, please tell your teachers.

Units of Study

Unit #	Unit Title	# Lessons	Topics
Unit 1	Intro to 6th Grade Math and Number Characteristics	~16 Lessons	<ul style="list-style-type: none">• Intro & procedures• Factors, Multiples• LCM, GCF• Order of operations• Equivalent expressions
Unit 2	Geometry	~19 Lessons	<ul style="list-style-type: none">• Perimeter, area• Area of triangles & composite shapes• 3D figures• Nets & surface area• Unit cubes and volume
Unit 3	Working with Decimals	~16 Lessons	<ul style="list-style-type: none">• Adding, subtracting, multiplying, dividing with decimals

			<ul style="list-style-type: none"> ● Fraction, decimal, percent equivalence
Unit 4	Integers and Rational Numbers	~17 Lessons	<ul style="list-style-type: none"> ● Zooming in on a number line (ordering fractions, decimals) ● Positive and negative integers ● Adding and subtracting positive and negative integers ● Rational numbers ● Absolute values ● Coordinate planes ● Inequalities
Unit 5	Fraction Operations	~19 Lessons	<ul style="list-style-type: none"> ● Fraction equivalence ● Comparing fractions ● Adding & subtracting fractions and mixed numbers with different denominators ● Fraction and mixed number multiplication ● Dividing fractions, mixed numbers, and whole numbers with each other
Unit 6	Expressions, Equations, & Inequalities	~20 Lessons	<ul style="list-style-type: none"> ● Intro to variable, expressions ● Solving equations ● Translating word problems to equations and solving ● Equations, tables, and graphs ● Solving inequalities ● Combining like terms ● Distributive property
Unit 7	Proportional Reasoning: Ratios and Rates	~21 Lessons	<ul style="list-style-type: none"> ● Intro to ratios ● Converting measurements ● Rates, speed, unit rate
Unit 8	Mixed Review	~10 Lessons	<ul style="list-style-type: none"> ● Review of all 6 units covered before state test
Unit 9	Statistics	~22 Lessons	<ul style="list-style-type: none"> ● 100 Students project ● Range ● Measures of Central Tendency: Mean, median, mode ● Measures of Variability:

			interquartile range, mean absolute deviation <ul style="list-style-type: none"> • Box plots
Unit 10	End of Year Wrap Up	~10 Lessons	<ul style="list-style-type: none"> • Special projects • SET Tournament • Year-end reflection

Grading:

Grades are used as a way to track learning progress, not a determining factor of being “good” or “bad” at Math.

Assessment (40%), includes exams and quizzes.

Classwork assignments (50%), includes practice problem worksheets, math tasks, exit tickets and projects.

REACH (10%), focus on school values including participation, engagement in discussions, effort, and being prepared.