REDINGTON JR/SR HIGH SCHOOL

MATH 180 COURSE 1 SYLLABUS

MATH 180

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Welcome to MATH 180

Math 180 puts students on the path toward algebra readiness by providing time to develop the conceptual understandings from which the standards for middle school and algebra extend and play.

Course I build students' conceptual understanding of whole numbers, fractions and decimal operations through operational fluency and problem solving. Because Math 180 strategies involve extensive use of the distributive Property to build operational fluency students look for and make use of this structure as they transition to operating on expressions with variables in algebra. Each Course I Topic helps students build understanding of a mathematical idea first, then apply new concepts in rigorous, yet accessible, problem-solving contexts.

In addition to teaching content standards that provide the conceptual underpinnings of algebra, Math 180 is designed to build students' conceptual understanding, flexible strategic thinking, and problem-solving perseverance. These important mathematical competencies prepare students to become algebraic thinkers who can flexibly apply content knowledge and reasoning strategies to complex problem-solving situations.

Materials for Class:

- MATH 180 mSpace Book (provided)

- Scratch paper

- Pencils

- Headphones (provided, but you are allowed to bring your own)

  Headphones are provided but students are allowed to keep a pair they prefer in their lockers to bring to class daily

Rules & Procedures:

CLASSROOM ESSENTIALS	RULES & PROCEDURES
mSpace books	● Obtain mSpace books immediately upon entering classroom ● Return mSpace books to the designated location before leaving the classroom
Game Box Manipulatives	● Use manipulatives as indicated by your teacher ● Put manipulatives in their proper location after use
Transitioning from Do Now to Rotations	● Move quietly from your desk to computer ● Pay attention to the group you are in each day ● Be respectful of your peers
Transitioning from Rotations	● Move quietly from computer station to the instructional area ● Move quietly from instructional area to computer station ● Be respectful of your peers
Computer Stations	● No food or drinks allowed at computer ● Use your assigned computer ● Raise your hand if you are experiencing challenges at your computer or in need of assistance ● Only use the Math 180 software unless granted permission to use other programs by your teacher ● Log off when you are finished for the day

Headphones	● Ensure headphones are accessible before beginning your computer session ● Return headphones to proper location before leaving the computer station
Teacher-Facilitated Instruction	● Be on task during teacher-facilitated instruction using your mSpace book. ● Participate during pair, group, and whole class activities. ● Communicate clearly, listen to others attentively, and ask questions when you need help ● Be respectful of the classroom materials.

Grades:

Grade percentages can be found in the student handbook (page 4).

Grades will be weighted as follows:

Formative assessments/daily work: 30%

Each lesson is worth a total of 20 points

- ● Do Now: 5 points
- ● mSpace Lessons: 10 points
- ● Exit Ticket: 5 points

Summative Assessments/tests and quizzes: 70%

Classroom Procedures:

Whole Class: Enter the room quietly, get your materials for class, sit in your assigned seat, read the objectives for the day that is posted on the board, and be ready to start class after the bell.

Group Instructions: Teacher will facilitate instruction to build conceptual understanding, develop reasoning and communication skills, and interpret student thinking. Students should do their best to listen, participate in discussions, and complete the given task for the day.

Software Time: The instructional software adapts to each students needs and pace, providing added support and practice for those who need it and accelerating those ready to move on. Do your best to work through your daily lessons. There are multiple zones for you to work through: Explore Zone, Learn Zone, Brain Arcade, and Success Zone. Grades are given in software based on daily usage. 25 minutes per day or 100 minutes per week is recommended.

PROGRAM OVERVIEW FOR MATH 180

BLOCK		TOPIC 1	TOPIC 2	TOPIC 3
Multiplicative Thinking	1	*Equal Groups in Multiplication*	*Facts & Factors*	*10 as a Factor*
The Distributive Property	2	*Place Value in Multiplication*	*Strategies for Multiplication*	*Two-Digit Multiplication*
Division	3	*Equal Groups in Division*	*Strategies for Division*	*Partial Quotient Strategy*
Fraction Concepts	4	*Understanding Fractions*	*Equivalent Fraction Models*	*Fractions as Division*
Fraction Relationships	5	*Strategies for Comparing Fractions*	*Equivalent Fractions on a Number Line*	*Adding and Subtracting Fractions*
Fraction Multiplication and Division	6	*Unit Fraction Multiplication*	*Strategies for Multiplying Fractions*	*Strategies for Dividing Fractions*
Decimals & Place Value	7	*Fraction & Decimal Relationships*	*Decimal Place Value*	*Decimals on a Number Line*
Decimal Operations	8	*Adding & Subtracting Decimals*	*Decimal Multiplication*	*Patterns in Decimal Division*
Both Sides of Zero	9	*Rational Numbers on a Number Line*	*Adding Rational Numbers*	*Subtracting Rational Numbers*

Please feel free to contact me with any questions you may have. It is easier for me to respond to emails throughout the day and I will do my best to get back to your phone calls as soon as possible.