

Dominican International School Kaohsiung



Course Syllabus

Subject: Math

Teacher: Mr. Costea

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School Year: 2023-24

Grade: 5

Course Description:

In this course, students will increase their mathematical knowledge of fractions and decimals and how to multiply and divide fractions and decimals. Students will also begin learning about geometry and measurement through graphing, converting and calculating volume of geometric figures. Students will learn various strategies and operations for solving problems in these mathematical domains.

Grade 5 Math Standards:

- **Operations and Algebraic Thinking:** Write and interpret numerical expressions. Analyze patterns and relationships.
- **Number and Operations in Base Ten:** Understand the place value system. Perform operations with multi-digit whole numbers and with decimals to hundredths.
- **Number and Operations--Fractions:** Equivalent fractions, add and subtract fractions, multiply and divide fractions.
- **Measurement and Data:** Convert measurements, represent and interpret data, volume relationships.
- **Geometry:** Graph points on a coordinate plane to solve problems, classify 2D figures into categories based on their properties.
- **Mathematical Practices:** Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique reasoning of others. Model with mathematics. Use tools appropriately and strategically. Attend to precision. Look for and make use of structure and express regularity in repeated reasoning.

Course Textbooks/Programs:

Primary Textbook

Dixon, J., et. al. (2012). *Go Math*. Houghton Mifflin Harcourt.

Class Materials Required:

- Math Textbook
- Graph Ruled Notebook
- Materials listed on the *Homeroom Supplies* list

Classroom Expectations

In order to promote a safe and positive classroom community and an environment conducive to learning, all students will:

Respect Self

- Listen and follow directions the first time they are given
- Come to class prepared and on time
- Complete all assignments
- Choose to use words that are appropriate for school
- Speak only in English
- Do your best!

Respect Others

- Listen actively to what others have to say and take turns in conversations
- Raise your hand before speaking
- Follow all of the DISK Handbook rules and procedures

Respect Property

- Handle all school and classroom equipment appropriately and with care
- Ask before touching other people's belongings

Assessment:

Formative, summative, and pre-assessments in the form of projects, quizzes, homework assignments, presentations, quizzes, tests, and quarter exams contribute to the final quarter grade. In addition, students will be assessed for deportment following the DOP STARS Deportment Rubric. See the table below for a breakdown of quarterly/yearly grading percentages.

30%	Class Participation & Seatwork, Homework
30%	Minor Projects, Portfolio, Unit Tests & Major Projects
30%	Quarter Exam/Assessment
10%	Deportment

Quarter One - Tentative Course Content

Week/Dates	TOPICS/ASSESSMENTS
Week 1	Intro, Beginning of the Year assessments. Chapter 1: Place Value, Multiplication, and Expressions Lesson 1
Week 2	Chapter 1: Place Value, Multiplication, and Expressions Lesson 2,3,4,5,6,
Week 3	Chapter 1: Place Value, Multiplication, and Expressions Lesson 7,8,9,10,11, Review
Week 4	<i>Chapter 1 Test</i> Chapter 2: Divide Whole Numbers Lesson 1,2,3
Week 5	Chapter 2: Divide Whole Numbers Lesson 4,5,6,7
Week 6	Chapter 2: Divide Whole Numbers Lesson 8,9, Review <i>Chapter 2 Test</i> Chapter 3: Add and Subtract Decimals Lesson 1
Week 7	Chapter 3: Add and Subtract Decimals Lesson 2,3
Week 8	Chapter 3: Add and Subtract Decimals Lesson 4,5,6
Week 9	Quarter 1 Math Exam <i>covering Chapters 1,2,&3 (first 6 lessons)</i>

Quarter Two - Tentative Course Content

Week/Dates	TOPIC/TARGETS
Week 1	Chapter 3: Add and Subtract Decimals Lesson 7,8,9,10
Week 2	Chapter 3: Add and Subtract Decimals Lesson 11,12 Chapter 4: Multiply Decimals Lesson 1,2
Week 3	Chapter 4: Multiply Decimals Lesson 3,4,5,6
Week 4	Chapter 4: Multiply Decimals Lesson 7,8 Chapter 4: Multiply Decimals Chapter 4 Review and <i>Chapter 4 Test</i>
Week 5	Chapter 5: Divide Decimals Lesson 1,2,3,4
Week 6	Chapter 5: Divide Decimals Lesson 5,6,7,8
Week 7	Chapter 5: Divide Decimals Chapter 5 Review and <i>Chapter 5 Test</i>
Week 8	Chapter 6: Add and Subtract Fractions with Unlike Denominators Lesson 1,2,3,4,5
Week 9	Quarter 2 Math Exam <i>covering Chapters 3 (last 6 lessons),4,5,6 (first 5 lessons)</i>

Quarter Three - Tentative Course Content

Week/Dates	TOPIC/TARGETS
Week 1	Chapter 6: Add and Subtract Fractions with Unlike Denominators Lesson 6,7
Week 2	Chapter 6: Add and Subtract Fractions with Unlike Denominators Lesson 8,9,10 Chapter 7: Multiply Fractions Lesson 1,2
Week 3	Chapter 7: Multiply Fractions Lesson 3,4,5,6,7
Week 4	Chapter 7: Multiply Fractions Lesson 8,9,10 Chapter 7 Review & <i>Chapter 7 Test</i>
Week 5	Chapter 8: Divide Fractions Lesson 1,2,3,4,5
Week 6	Chapter 8: Divide Fractions Review & <i>Chapter 8 Test</i>
Week 7	Chapter 9: Algebra: Patterns & Graphing Lesson 1,2,3,4
Week 8	Chapter 9: Algebra: Patterns & Graphing Lesson 5,6,7, Review and <i>Chapter 9 Test</i>
Week 9	Quarter 3 Math Exam covering Chapters 7,8 & 9

Quarter Four- Tentative Course Content

Week	TOPIC/TARGETS
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Week 1	Chapter 10: Convert Units of Measure Lesson 1,2,3,4
Week 2	Chapter 10: Convert Units of Measure Lesson 5,6,7
Week 3	Easter Holiday No Classes
Week 4	<i>Chapter 10 Test</i> Chapter 11: Geometry and Volume Lesson 1,2,3
Week 5	Chapter 11: Geometry and Volume Lesson 4,5,6,7,8
Week 6	Chapter 11: Geometry and Volume Lesson 9,10,11,12
Week 7	Chapter 11: Geometry and Volume Chapter 11 Review and <i>Chapter 11 Test</i> Review Chapters 9,10,11
Week 8	Quarter 4 Math Exam covering Chapters 9,10 & 11