

MATHEMATICS COURSE SYLLABUS

GRADE LEVEL: Grade 1 TEACHER: CLARENCIA EDDIO TEACHER: ELAINE DE BRUYN SCHOOL YEAR: 2023-2024 EMAIL: ceddio@dishs.tp.edu.tw EMAIL: edebruyn@dishs.tp.edu.tw

COURSE DESCRIPTION:

First Grade Math provides many activities that will further develop the acquisition of mathematical concepts and skills learned in Kindergarten. It will focus on the following important areas: (1) developing understanding of addition, subtraction, and strategies for addition and subtraction up to 2-digit numbers; (2) developing understanding of whole number relationships and place value, including grouping in tens and ones; (3) developing understanding of linear measurement and measuring lengths as iterating length units; and (4) reasoning about attributes of, and composing and decomposing geometric shapes.

STANDARDS:

Grade 1 Math follows the Common Core State Standards.

Overview

Operations and Algebraic Thinking

- * Represent and solve problems involving addition and subtraction.
- * Understand and apply properties of operations and the relationship between addition and subtraction.
- * Add and subtract fluently within 20.
- * Work with addition and subtraction equations.

Number and Operations in Base Ten

- * Extend the counting sequence.
- * Understand place value.
- * Use place value understanding and properties of operations to add and subtract.

Measurement and Data

- * Measure lengths indirectly and by iterating length units.
- * Tell and write time.
- * Represent and interpret data.

Geometry

* Reason with shapes and their attributes.

COURSE OBJECTIVES:

At the end of the school year, the students will be able to:

- * demonstrate confidence in solving addition and subtraction problems;
- * analyze and solve number stories;
- * write their number stories;
- * explain their strategies in solving addition and subtraction problems;
- * demonstrate correct measurement of things using standard and nonstandard measurement tools;
- * collect, represent, and interpret data
- * identify geometric shapes and their attributes and create composite shapes;
- * read digital and analog clocks.

ASSESSMENT:

Students will be continuously assessed during all class activities. Students' participation in class activities, how much they challenge themselves to contribute orally to meet the task given, responding to peers and to teacher input, offering own ideas and experiences, and short quizzes are parts of formative assessments. Summative assessments are given once every quarter. Students will take quizzes and quarter tests to assess their content knowledge. Quizzes and tests will relate to current and previous topics. The assessments will provide students with feedback to determine whether the common core standards learning objectives have been met.

Students absent from class for a quiz or test will be required to take it some other time.

GRADING SYSTEM

Every quarter, each student will receive grades based on the following criteria:

□ 30% Classwork, Homework, Class participation

- □ 30% Quizzes
- □ 30% Quarterly Exams

 \Box 10% Deportment (behavior in class based on the school's SLOs – truthful, organized, courageous, reflective, helpful)

Total: 100%

PRIMARY TEXTBOOK & OTHER RESOURCES

Charles, R. et.al. (2020). enVision Mathematics. Savvas Learning Company, LLC. USA

ADDITIONAL INFORMATION

Please see google classroom for more information.

<u>Academic Dishonesty</u> means employing a method or technique or engaging in conduct in an academic endeavor that contravenes the standards of ethical integrity expected at DIS. Academic dishonesty includes but is not limited to, the following:

- 1. Purposely incorporating the ideas, words of sentences, paragraphs, or parts thereof without appropriate acknowledgment and representing the product as one's own work; and
- 1. Representing another's intellectual work such as photographs, paintings, drawings, sculpture, or research or the like as one's own, including failure to attribute content to an AI.
- 2. Employing a tutor, making use of Artificial Intelligence without acknowledgement, getting a parent to write a paper or do an assignment, paying for an essay to be written by someone else and presented as the student's own work.
- 3. Committing any act that a reasonable person would conclude, when informed of the evidence, to be a dishonest means of obtaining or attempting to obtain credit for academic work.

Any act of academic dishonesty will result in an automatic zero on the entire assignment

SUBJECT: Gr.1 Mathematics <u>1st QUARTER – TENTATIVE COURSE CONTENT</u>

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)	
Week / Date	Topic / Projects / Assessments
Week 1 Aug 10 th to 11 th Only 2 School Days 10 ~ First Day / Orientation Day	Introduction and Establishing Routines R1 – Readiness – writing 0 to 4 correctly R2 – Readiness – writing 5 to 9 correctly R3 – Readiness – counting domino dots and writing to 9 R4 – Readiness – comparing numbers through 5 (counting things and circling the lesser) R5 – Readiness – comparing numbers through 10 (circling the greater number)
Week 2 Aug 14 th to 18 th 15 ~ Opening Mass	 R6 – Readiness – making numbers 6 to 9 (adding inside and outside, then total) R7 – Readiness – finding missing parts of numbers 6 to 9 R8 – Readiness – coloring shapes Page 2 – Review What You Know (vocabulary: count, join; counting, sums)
Week 3 Aug 21 st to 25 th	Lesson 1-1 Add To Lesson 1-2 Put Together Lesson 1-3 Both Addends Unknown Lesson 1-4 Take From Lesson 1-5 Compare Situations

Week 4 Aug 28 th to Sep 1 st	Lesson 1-6 More Compare Situations Lesson 1-7 Change Unknown Lesson 1-8 Practice Adding and Subtracting Lesson 1-9 (Problem Solving) Construct Arguments
Week 5 Sep 4 th to 8 th 8 ~ Holy Mass & VIP Induction	Lesson 2-1 Count on to Add Lesson 2-2 Doubles Lesson 2-3 Near Doubles Lesson 2-4 Facts with 5 on a Ten-Frame
Week 6 Sep 11 th to 15 th 12-14 ~ Pre-Exam Days	Lesson 2-5 Add in Any Order Lesson 2-6 Count Back to Subtract Lesson 2-7 Think Addition to Subtract Lesson 2-8 Solve Word Problems with Facts to 10
Week 7 Sep 18 th to 22 nd	Lesson 2-9 Look for and Use Structure Lesson 3-1 Count on to Add Lesson 3-2 Count on to Add Using and Open Number Line Lesson 3-3 Doubles Lesson 3-4 Doubles Plus
Week 8 Sep 25 th to 29 th <u>No Classes</u> 25-28 ~Teacher's Conference 29 – Moon Festival Holiday	No classes
Week 9 Oct 2 nd to 6 th <u>3 Days of Class</u> 5-6 ~Q1 Exams	Lesson 3-5 Make 10 to Add Lesson 3-6 Continue to Make 10 to Add *(<i>can be skipped</i>) Lesson 3-7 Explain Addition Strategies Lesson 3-8 Solve Addition Word Problems with Facts to 20 Lesson 3-9 Critique reasoning <i>October 5 – Quarter Exam</i>

2nd QUARTER – TENTATIVE COURSE CONTENT

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)	
Week / Date	Topic / Projects / Assessments
Week 1 (10) Oct 9 th to 13 th <u>3 Days of Class</u> 9-10 – Double 10 Holiday	Lesson 4-1 Count to Subtract Lesson 4-2 Make 10 to Subtract Lesson 4-3 Continue to Make 10 to Subtract
Week 2 (11) Oct 16 th to 20 th	Lesson 4-4 Fact Families Lesson 4-5 Use Addition to Subtract Lesson 4-6 Continue to Use Addition to Subtract

	Lesson 4-7 Explain Subtraction Strategies
	Lesson 4-8 Solve word Problems with Facts to 20
Week 3 (12) Oct 23 rd to 27 th	Lesson 4-9 Reasoning Topic 4 Vocabulary Review Topic 4 Reteaching Topic 4 Assessment Practice Topic 4 Performance Task
Week 4 (13) Oct 30 th to Nov 3 rd 1 - All Saint's Day Mass	Lesson 5-1 Find the Unknown Numbers Lesson 5-2 True or False Equations Lesson 5-3 Make True Equations Lesson 5-4 Add Three Numbers
Week 5 (14) Nov 6 th to 10 th	Lesson 5-5 Word Problems with Three Addends Lesson 5-6 Solve Addition and Subtraction Word Problems Lesson 5-7 Precision
Week 6 (15) Nov 13 th to 17 th	Topic 5 Vocabulary Review Topic 5 Reteaching Topic 5 Assessment Practice Topic 5 Performance task
Week 7 (16) Nov 20 th to 24 th	Lesson 6-1 Organize Data into Three Categories Lesson 6-2 Collect and Represent Data Lesson 6-3 Interpret Data Lesson 6-4 Continue to Interpret Data Lesson 6-5 Make Sense and Persevere
Week 8 (17) Nov 27 th to Dec 1 st	Topic 6 Vocabulary Review Topic 6 Reteaching Topic 6 Assessment Practice Lesson 7-1 Count by 10s to 120 Lesson 7-2 Count by 1s to 120 Lesson 7-3 Count on a Number Chart to 120
Week 9 (18) Dec 4 th to 8 th 8 - Foundation Day Celebrations	Lesson 7-4 Count by 1s or 10s to 120 Lesson 7-5 Count on an Open Number Line Lesson 7-6 Count and Write Numerals Lesson 7-7 Repeated Reasoning
Week 10 (19) Dec 11 th to 15 th <u>3 Days of Class</u> 14-15 ~ Q2 Exams	Fluency Practice Activity (add and subtract within 10) Topic 7 Vocabulary Review Topic 7 Reteaching Topic 7 Assessment Practice Topic 7 Performance Task December 14 – Quarter Exam
Dec 18 th to Jan 1 st	Christmas Break

<u>3rd QUARTER – TENTATIVE COURSE CONTENT</u>

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)	
Week / Date	Topic / Projects / Assessments
Week 1 (20) Jan 3 rd to 5 th <u>3 Days of Class</u> 4 ~ New Year Mass	Lesson 8-1 Make Numbers 11 to 19 Lesson 8-2 Number Made with Tens Lesson 8-3 Count with Groups of Tens and Ones
Week 2 (21) Jan 8 th to 12 th	Lesson 8-4 Tens and Ones Lesson 8-5 Continue with Tens and Ones Lesson 8-6 Different Names for Same Number Lesson 8-7 (Problem Solving) Look for and Use Structure
Week 3 (22) Jan 15 th to 19 th	Lesson 9-1 1 More, 1 Less; 10 More, 10 Less Lesson 9-2 Find Numbers on a Hundred Chart Lesson 9-3 Compare Numbers Lesson 9-4 Compare Numbers with Symbols <, >, and =
Week 4 (23) Jan 22 nd to 26 th	Lesson 9-5 Compare Numbers on a Number Line Lesson 9-6 Make Sense and Persevere Lesson 10-1 Add Tens Using Models Lesson 10-2 Mental Math: Ten More Than a Number
Week 5 (24) Jan 29 th to Feb 2 nd	Lesson 10-3 Add Tens and Ones Using a Hundred Chart Lesson 10-4 Add Tens and Ones Using an Open Number Line Lesson 10-5 Add Tens and Ones Using Models Lesson 10-6 Make a Ten to Add
Week 6 (25) Feb 5 th to 9 th <u>3 Days of Class</u> <u>8-9~CNY</u>	Lesson 10-7 Add Using Place Value Lesson 10-8 Practice adding Using Strategies Lesson 10-9 Model with Math
Feb 8 th to 16 th	Chinese New Year
Week 7 (26) Feb 19 th to 23 rd 19 ~ Lenten Mass 21-23 ~ Pre-Exam Days	Lesson 11-1 Subtract Tens Using Models Lesson 11-2 Subtract Tens Using a Hundred Chart Lesson 11-3 Subtract Tens Using an Open Number Line Lesson 11-4 Use Addition to Subtract Tens
Week 8 (27) Feb 26 th to March 1 st <u>4 Davs of Class</u> 28 ~ 228 Memorial Day Holiday	Lesson 11-5 Mental Math: Ten Less Than a Number Lesson 11-6 Use Strategies to Practice Subtraction Lesson 11-7 Model with Math
Week 9 (28) March 4 th to 8 th <u>4 Days of Class</u> 8~Q3 Exams	Lesson 12-1 Compare and Order Length Lesson 12-2 Indirect Measurement Lesson 12-3 Use Units to Measure Length Lesson 12-4 Use Appropriate Tools <i>March 8 – Quarter Exam</i>

<u>4th QUARTER – TENTATIVE COURSE CONTENT</u>

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)	
Week / Date	Topic / Projects / Assessments
Week 1 (29) March 11 th to 15 th <u>4 Days of Class</u> <u>11 ~ Q3 Exams</u> <u>12 ~ Q4 Begins</u>	Lesson 13-1 Tell the Value of Coins Lesson 13-2 Find the Value of Group of Coins Lesson 13-3 Understand the Hour and Minute Hands Lesson 13-4 Tell and Write Time to the Hour
Week 2 (30) March 18th to 22 nd 18-21 ~ Fire Drill	Lesson 13-5 Tell and Write Time to the Half Hour Lesson 13-6 Reasoning Lesson 14-1 Use Attributes to Define Two-Dimensional (2-D) Shapes Lesson 14-2 Defining and Non-Defining Attributes of 2-D Shapes
March 25 th to Apr 5 th	Easter Break
Week 3 (31) Apr 8 th to 12 th 10 ~ Easter Mass	Lesson 14-3 Build and Draw 2-D Shapes by Attributes Lesson 14-4 Compose 2-D Shapes Lesson 14-5 Compose New 2-D Shapes from 2-D Shapes Lesson 14-6 Use Attributes to define Three-Dimensional (3- D) Shapes
Week 4 (33) Apr 15 th to 19 th	Lesson 14-7 Defining and Non-Defining Attributes of 3-D Shapes Lesson 14-8 Compose with 3-D Shapes Lesson 14-9 Make Sense and Persevere
Week 5 (34) Apr 22 th to 26 th 22-26 ~ AP Mock Exams	Lesson 15-1 Make Equal Shares Lesson 15-2 Make Halves and Fourths of Rectangles and Circles Lesson 15-3 Understand Halves and Fourths Lesson 15-4 Model with Math
Week 6 (35) Apr 29 th to May 3 rd 1-2 ~ Pre-Exam 1-10~ Final Exams (K, 5, 8, 12 only) 4/29 - 5/10 ~ AP Exams	Topic 13 Vocabulary Review Topic 13 Reteaching Topic 13 Assessment Practice Topic 13 Performance Task
Week 7 (36) May 6 th to 10 th 1-10~ Final Exams (K, 5, 8, 12 only) 4/29 – 5/10 ~ AP Exams	Topic 14 Vocabulary Review Topic 14 Reteaching Topic 14 Assessment Practice Topic 14 Performance Task

Week 8 (37)	Topic 15 Vocabulary Review
May 13 th to 17 th	Topic 15 Reteaching
<u>2 Days of Class</u>	Topic 15 Assessment Practice
15-16 ~ Q4 Exams	Topic 15 Performance Task
17 ~ Record Day	<i>May 15 – Quarter Exam</i>
Week 9 (38)	20-24 ~ Student Clearance Days
May 20 th to 24 th	21 ~ Baccalaureate Mass for Graduating classes
<u>ACTIVITIES</u> : Double check	22 & 23 ~ Middle & High School Sports Day
the school calendar and	23 ~ Pre-Kindergarten & Gr. 1 - 4 Recognition/Kindergarten Graduation/Gr. 5 Promotion
emails from the	24 ~ Gr. 6 - 7 Recognition and Gr. 8 Graduation
administration.	24 ~ Lower School Sports Day
Week 10 (39) May 27 th to 31 st <u>ACTIVITIES</u> : Double check the school calendar and emails from the administration.	27 ~ House Culminating Activity 28 ~ Gr. 9-11 Recognition and Gr. 12 Graduation 29 ~ Class Party 30 ~ Last Day of School & Report Card Distribution (half day) 31 ~ Teachers/Staff Meeting