

MATHEMATICS COURSE SYLLABUS

GRADE LEVEL: Grade 1 SCHOOL YEAR: 2022-2023

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

Total: 100%

PRIMARY TEXTBOOK & OTHER RESOURCES

Bell, et.al. 2016. Everyday Mathematics: The University of Chicago School Mathematics Project. McGraw-Hill Education, Ohio, U.S.A.

ADDITIONAL INFORMATION

Please see google classroom for more information.

SUBJECT: Gr.1 Mathematics 1st 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 Aug 10 th to 12 th 3 Days of Class 10~ First Day / Orientation Day	Introduction and Establishing Routines
Week 2 Aug 15 th to 19 th Opening Mass	Lesson 1-1: Introducing First Grade Everyday Mathematics Lesson 1-2: Investigating the Number Line Lesson 1-3: Tools for Doing Mathematics Lesson 1-4: Counting Strategies
Week 3 Aug 22 nd to 26 th	Lesson 1-5: 1 More, 1 Less Lesson 1-6: Comparing Numbers Lesson 1-7: Organizing Data in a Tally Chart Lesson 1-8: More organizing Data
Week 5 Sep 5 th to 9 th 4 Days of Class 8~ Mass &Birthday of Mother Mary 9 th – Moon Festival	Lesson 1-9: Exploring Math Materials Lesson 1-10: Number Stories Lesson 1-11: Counting Larger Numbers Unit 1 Assessment
Week 6 Sep 12 th to 16 th FYI – Pre-Exam Days	Lesson 2-1 – Introducing the strategy wall Lesson 2-2 - Decomposing numbers with 10 Lesson 2-3 – More Decomposing numbers with 10 Lesson 2-4 - Pairs of numbers that add to 10
Week 7 Sep 19 th to 23 rd	Lesson 2-5 – 10 Apples Lesson 2-6 – More counting on to add Lesson 2-7 – Labeling counts Lesson 2-8 – Change-to-more number stories
Week 8 Sep 26 th to 30 th 2 Days of Class 28-30 ~Teacher's Conference	Lesson 2-9 – Change-to-less number stories Lesson 2-10 – Number models
Week 9 Oct 3 rd to 7 th 3 Days of Class 6-7 ~Q1 Exams	Lesson 2-11 – Finding Unknowns Lesson 2-12 – Unit 2 Assessments First Quarter Exam (Covering Units 1 – 2)

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 10 th to 14 th 4 Days of Class 10 – Double 10 Holiday	Lesson 3-1 – Parts-and-Total Number Stories Lesson 3-2 – Number Story Strategies Lesson 3-3 – Exploring Counting, Matching Pairs, and Ordering by Length Lesson 3-4 – Birds in a Tree
Week 2 (11) Oct 17 th to 21 st	Lesson 3-5 - Counting on the Number Line Lesson 3-6 – Counting to add and subtract Lesson 3-7 – More Counting to Add and Subtract Lesson 3-8 – Skip Counting to Add and Subtract
Week 3 (12) Oct 24 th to 28 th 25-27 – Book Fair 28-Masquerade Night TBA-Holy Rosary Mass	Lesson 3-9 - Counting Applications: Frames and Arrows Lesson 3-10 – Addition and Subtraction Application: Frames and Arrows Lesson 3-11 – Counting with Calculators Lesson 3-12 – Unit 3 Assessment
Week 4 (13) Oct 31 st to Nov 4 th 1-All Saint's Day Mass	Lesson 4-1 – Introducing Length and Measurement Lesson 4-2 – Measuring Length Lesson 4-3 – More measuring length Lesson 4-4 - Measuring a Marker
Week 5 (14) Nov 7 th to 11 th	Lesson 4-5 – Exploring Data, Shapes, and Base-10 Blocks Lesson 4-6 - Representing Data with a bar graph Lesson 4-7 - Introducing Doubles Lesson 4-8 – Combinations of 10
Week 6 (15) Nov 14 th to 18 th	Lesson 4-9 – More Combinations of 10 Lesson 4-10 – Adding three numbers Lesson 4-11 – 10 More, 10 Less Lesson 4-12 – Unit 4 assessment
Week 7 (16) Nov 21 st to 25 th 25 - YSC Contest 25-Gr.12 Q2 Exam	Lesson 5-1 – Introducing Place Value Lesson 5-2 – Digits and Place Value Lesson 5-3 – Place Value Application: Pennies and Dimes Lesson 5-4 – Greater than, Less than, and Equal to
Week 8 (17) Nov 28 th to Dec 2 nd FYI – Pre-Exam Days 28-Gr.12 Q2 Exam	Lesson 5-5 – The Equal Sign Lesson 5-6 - Counting and Place Value Application: Number Scrolls Lesson 5-7 – Measuring Path Lesson 5-8 – Exploring Base-10 Exchanges, Lengths, and Path Measurement

Week 9 (18) Dec 5 th to 9 th 8 - Foundation Day Celebrations	Lesson 5-9 - More Comparison Symbols Lesson 5-10 - Comparison Number Stories Lesson 5 - 11 - Two-Digit Addition and Subtraction Lesson 5 - 12 - Adding Animal Weights
Week 10 (19) Dec 12 th to 16 th	Review lessons
3 Days of Class 15-16 ~Q2 Exams	Second Quarter Exams (Covering units 3 – 5)
Dec 19th to Jan 2nd	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 5 to 6 th 2 Days of Class	Lesson 6-1 – Time and the hour-hand clock Lesson 6-2 – More 2-digit number stories Lesson 6-3 – Exploring doubles and shapes
Week 2 (21) Jan 9 th to 13 th	Lesson 6-4 – Introducing near doubles Lesson 6-5 – Recording near double strategies Lesson 6-6 – Introducing making 10
Week 3 (22) Jan 16 th to 20 th	Lesson 6-8 – Pencils for the writing club Lesson 6-9 – Understanding equivalence Lesson 6-10 – More place value
Jan 23 rd to 27 th	Chinese New Year
Jan 23 rd to 27 th Week 4 (23) Jan 30 th to Feb 3 rd	Chinese New Year Lesson 6-11 – Place value application Unit 6 Assessment
Week 4 (23)	Lesson 6-11 – Place value application
Week 4 (23) Jan 30 th to Feb 3 rd Week 5 (24)	Lesson 6-11 – Place value application Unit 6 Assessment Lesson 7-1 – Fact families Lesson 7-2 – More fact families

Week 8 (27) Feb 27 th to March3 rd 3 Days of Class 27-28 ~ 228 Memorial Day Holiday	Lesson 7-10 – Addition facts Lesson 7-11 – Digital clocks
Week 9 (28) March 6 th to 10 th <u>4 Days of Class</u> 11 - Q3 Exams	Unit 7 Assessment and review lessons Third Quarter Exam (covering units 6 and 7)

<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 13 th to 17 th <u>4 Days of Class</u> 13 - Q3 Exams 14~ Q4 Begins	Lesson 8-1 – Building shapes Lesson 8-2 – Halves Lesson 8-3 – Fourths
Week 2 (30) March 20th to 24 th 20 ~ Fire Drill	Lesson 8-4 – Sharing paper squares Lesson 8-5 – Combining 2D shapes Lesson 8-6 – 3D Shapes Lesson 8-7 – Composition of shapes and addition fact strategies Lesson 8-8 – Time to the half hour
Week 3 (31) March 27 th to 31 st	Lesson 8-10 – Number grid puzzles Lesson 8-11 – Mentally finding 10 more and 10 less Unit 8 Assessment
Apr 3 rd to 14 th	Easter Break
Week 4 (33) Apr 17 th to 21 st	Lesson 9-1 – Measurement review Lesson 9-2 – Two-digit number stories Lesson 9-3 – Shopping at the school store Lesson 9-4 – Exploring broken calculators, fractions and facts
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1-5~ Final Exams (K, 5, 8, 12 only) 1-5 ~ AP Exams	Lesson 9-11 – Review equal shares
Week 7 (36) May 8 th to 12 th 8-12~ Final Exams (K, 5, 8, 12 only) 1-5~ AP Exams	Unit 9 Assessment and review lessons
Week 8 (37) May 15 th to 19 th 3 Days of Class 18-19~ Q4 Exams	Fourth Quarter Exams (Covering units 8 and 9)
Week 9 (38) May 22 nd to 26 th 4 Days of Class 22~ Record Day 23-26 ~ Student Clearance	End of year activities
Week 10 (39) May 29 th to June 2 nd 4 Days of Class 1 ~ Students Last Day 2~ Teachers/Staff Meeting	End of year activities