



Grade 4 Mathematics

COURSE SYLLABUS

GRADE LEVEL: Grade 4

SCHOOL YEAR: 2023-24

TEACHER: Mr. James Henselman (G4M)/Mr. Arden Ruttan (G4J)

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COURSE DESCRIPTION:

Fourth grade math provides many activities that will further develop the acquisition of mathematical concepts and skills learned in the previous grades. The lessons built in the context of life-related situations help students retain and apply theories they have learned. Basic operations deal with larger whole numbers and decimals, like and unlike fractions, solving simple algebraic expressions and using simple formulas to solve problems in geometry. The program seeks to help students develop an understanding of math concepts through problem-based instruction, small-group interaction, and visual learning with a focus on reasoning and modeling. Each lesson includes daily review and a small-group, problem-based activity, followed by guided and independent practice activities. Lessons are organized into a customizable sequence of topics and use texts, workbooks, manipulatives, and technology, incorporating both group and individual activities.

COURSE OBJECTIVES:

1. Recognizing number operations in base 10.
2. Explain operations and algebraic thinking through expressions and patterns.
3. Solve problems through number operations through division, multiplication and measuring in metric units.
4. Solve problem based learning through addition, subtraction and multiplication of fractions.
5. Explore geometry through triangles, volume, three dimensional figures and problem solving.

ASSESSMENT: Please see Google Classroom for more information.

The quarterly grade will be awarded for all student work based on the following criteria:

- 1) **Class participation, Homework, Quizzes and Tests** (30% of quarterly grade)
- 2) **Major Projects and/or Assignments** (30% of quarterly grade)
- 3) **Quarterly Exams** (30% of quarterly grade)
- 4) **Department Marks** (10% of quarterly grade)

PRIMARY TEXTBOOK & OTHER RESOURCES:

- **TEXT:** enVisionmath 2.0, 2016, Rana I. Charles, Jennifer BayWilliams, Robert Q. Berry, III et al
ISBN -13 978-0-328-82781-
- **LINKS:** 1. Our school website: <http://www.dishs.tp.edu.tw/>
- 2. Publisher's website: <https://www.pearsonrealize.com/index.html#/>
- 3. Online Math Practice: <https://www.khanacademy.org/math/cc-fourth-grade-math>
<https://www.mathsisfun.com/links/curriculum-year-4.html>

ADDITIONAL INFORMATION

CLASSROOM EXPECTATIONS:

- 1) Be on time to class; be seated **before** the bell rings.
- 2) Wear your uniform neatly.
- 3) Use English at all times.
- 4) Come prepared with books, assignments, and supplies, without chewing gum, snacks, food, or drinks.
- 5) A sealable water bottle is allowed.
- 6) Be respectful of others (especially when speaking), and of school property.
- 7) Do your best and participate.
- 8) Ask permission before leaving the class; take hall pass.
- 9) Wait for the bell to ring before you leave class.
- 10) Class/seat work which are not completed will have to be completed during lunch recess after the student has eaten his/her lunch, or possibly at the end of the school day.

HOMEWORK RULES

- 1) All homework should be handed in on the due date.
- 2) All homework should be done according to the directions/instructions given.
- 3) If homework is handed in late, points shall be deducted every day until assignment is turned in.

DISCIPLINE:

- 1) Verbal warning, second reminder (if needed).
- 2) Write-Up and then referral to the Discipline Office.
- 3) Further consequences if necessary.

Academic Dishonesty 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

1st QUARTER – TENTATIVE COURSE CONTENT

<i>(NB: Depending on time and interest, the teacher may delete and/or add other selections.)</i>	
Week / Date	Topic / Projects / Assessments
Week 1 Aug 10th to 11th Only 2 School Days <i>10 ~ First Day / Orientation Day</i>	Thursday – Orientation in the morning. Pass out books. Routines and Procedures. New students' orientation 8/10 Topic 1: Generalize Place Value Understanding
Week 2 Aug 14th to 18th <i>15 ~ Opening Mass</i>	Opening Mass 8/15 Topic 1: Generalize Place Value Understanding
Week 3 Aug 21st to 25th	Topic 2: Fluently Add and Subtract Multi-Digit Whole Numbers
Week 4 Aug 28th to Sep 1st	Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers
Week 5 Sep 4th to 8th <i>8 ~ Holy Mass & VIP Induction</i>	Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers Topic 4: Use Strategies and Properties to Multiply by 2-Digit Numbers
Week 6 Sep 11th to 15th <i>12-14 ~ Pre-Exam Days</i>	Topic 4: Use Strategies and Properties to Multiply by 2-Digit Numbers
Week 7 Sep 18th to 22nd	Comprehensive Review of Topics 1-4
Week 8 Sep 25th to 29th No Classes <i>25-28 ~Teacher's Conference</i> <i>29 ~ Moon Festival Holiday</i>	Comprehensive Review of Topics 1-4 Teachers' Conference
Week 9 Oct 2nd to 6th 3 Days of Class <i>5-6 ~Q1 Exams</i>	Topics 1-4 Review and Assessment – First Quarter Exams (Thursday/Friday Half-days)

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 9th to 13th <u>3 Days of Class</u> <i>9-10 – Double 10 Holiday</i>	Topic 5: Use Strategies and Properties to divide by 1-Digit Numbers
Week 2 (11) Oct 16th to 20th	Topic 5: Use Strategies and Properties to divide by 1-Digit Numbers
Week 3 (12) Oct 23rd to 27th	Topic 5: Use Strategies and Properties to divide by 1-Digit Numbers Topic 6: Use Operations with Whole Numbers to Solve Problems
Week 4 (13) Oct 30th to Nov 3rd <i>1 - All Saint's Day Mass</i>	Topic 6: Use Operations with Whole Numbers to Solve Problems
Week 5 (14) Nov 6th to 10th	Topic 6: Use Operations with Whole Numbers to Solve Problems
Week 6 (15) Nov 13th to 17th	Topic 7: Factors and Multiples
Week 7 (16) Nov 20th to 24th	Topic 7: Factors and Multiples
Week 8 (17) Nov 27th to Dec 1st	Topic 8: Extend Understanding of Fraction Equivalence and Ordering
Week 9 (18) Dec 4th to 8th <i>8 - Foundation Day Celebrations</i>	Comprehensive Review of Topics 5-8
Week 10 (19) Dec 11th to 15th <u>3 Days of Class</u> <i>14-15 ~ Q2 Exams</i>	Topics 5-8 Review and Assessment -Second Quarter Exams (Thursday/Friday Half-days)
Dec 18th to Jan 1st	Christmas Holiday

3rd 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 (20) Jan 3rd to 5th 3 Days of Class <i>4 ~ New Year Mass</i>	Topic 9: Understand Addition and Subtraction of Fractions
Week 2 (21) Jan 8th to 12th	Topic 9: Understand Addition and Subtraction of Fractions
Week 3 (22) Jan 15th to 19th	Topic 10: Extend Multiplication Concepts to Fractions
Week 4 (23) Jan 22nd to 26th	Topic 10: Extend Multiplication Concepts to Fractions
Week 5 (24) Jan 29th to Feb 2nd	Topic 11: Represent and Interpret Data on Line Plots
Week 6 (25) Feb 5th to 9th 3 Days of Class <i>8-9 ~ CNY</i>	Topic 11: Represent and Interpret Data on Line Plots
Feb 8th to 16th	CNY Holiday
Week 7 (26) Feb 19th to 23rd <i>19 ~ Lenten Mass</i> <i>21-23 ~ Pre-Exam Days</i>	Topic 12: Understand and Compare Decimals
Week 8 (27) Feb 26th to March 1st 4 Days of Class <i>28 ~ 228 Memorial Day Holiday</i>	Comprehensive Review of Topics 9-12 IOWA Assessments
Week 9 (28) March 4th to 8th 4 Days of Class <i>8 ~ Q3 Exams</i>	Topics 9-12 Review and Assessment -Third Quarter Exams: (Friday/Monday Half-days)

4th 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 (29) March 11th to 15th <u>4 Days of Class</u> <i>11 ~ Q3 Exams</i> <i>12 ~ Q4 Begins</i>	Topic 13: Measurement: Find Equivalence in Units of Measure
Week 2 (30) March 18th to 22nd <i>18-21 ~ Fire Drill</i>	Topic 13: Measurement: Find Equivalence in Units of Measure
March 25th to Apr 5th	Easter Holiday
Week 3 (31) Apr 8th to 12th <i>10 ~ Easter Mass</i>	Topic 13: Measurement: Find Equivalence in Units of Measure
Week 4 (33) Apr 15th to 19th	Topic 14: Algebra: Generate and Analyze Patterns
Week 5 (34) Apr 22th to 26th <i>22-26 ~ AP Mock Exams</i>	Topic 15: Geometric Measurement: Understand Concepts of Angles and Angle Measurement
Week 6 (35) Apr 29th to May 3rd <i>1-2 ~ Pre-Exam</i> <i>1-10~ Final Exams (K, 5, 8, 12 only)</i> <i>4/29 – 5/10 ~ AP Exams</i>	Topic 15: Geometric Measurement: Understand Concepts of Angles and Angle Measurement Topic 16: Lines, Angles and Shapes
Week 7 (36) May 6th to 10th <i>1-10~ Final Exams (K, 5, 8, 12 only)</i> <i>4/29 – 5/10 ~ AP Exams</i>	Topic 16: Lines, Angles and Shapes Comprehensive Review of Topics 13-16
Week 8 (37) May 13th to 17th <u>2 Days of Class</u> <i>15-16 ~ Q4 Exams</i> <i>17 ~ Record Day</i>	Comprehensive Review of Topics 13-16 Topics 9-12 Review and Assessment -Fourth Quarter Exams: (Wednesday/Thursday Half-days)
Week 9 (38) May 20th to 24th ACTIVITIES: Double check the school calendar and emails from the administration.	<hr/> <i>Ancillary Activities</i> <i>20-24 ~ Student Clearance Days</i> <i>21 ~ Baccalaureate Mass for Graduating classes</i> <i>22 & 23 ~ Middle & High School Sports Day</i> <i>23 ~ Pre-Kindergarten & Gr. 1 - 4 Recognition/Kindergarten Graduation/Gr. 5 Promotion</i> <i>24 ~ Gr. 6 – 7 Recognition and Gr. 8 Graduation</i> <i>24 ~ Lower School Sports Day</i>
Week 10 (39) May 27th to 31st ACTIVITIES: Double check the school calendar and emails from the administration.	<hr/> <i>Ancillary Activities</i> <i>27 ~ House Culminating Activity</i> <i>28 ~ Gr. 9-11 Recognition and Gr. 12 Graduation</i> <i>29 ~ Class Party</i> <i>30 ~ Last Day of School & Report Card Distribution (half day)</i> <i>31 ~ Teachers/Staff Meeting</i>