Dominican International School

Grade 4 Mathematics
COURSE SYLLABUS

GRADE LEVEL: Grade 4 **SCHOOL YEAR: 2024-25**

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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) **Deportment Marks** (10% of quarterly grade)

PRIMARY TEXTBOOK & OTHER RESOURCES:

- **TEXT:** enVisionmath 2.0, 2016, Ranal I. Charles, Jennifer Bay Williams, 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.savvasrealize.com/#/
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

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)

Week / Date	Topic / Projects / Assessments
Week 1 **Aug 12th to 16th** **4 Days of Class** 12~ First Day / Orientation Day	*Monday – Orientation in the morning. Pass out books. Routines and Procedures.* **Topic 1:** *Generalize Place Value Understanding*
Week 2 **Aug 19th to 23rd**	**Topic 1:** *Generalize Place Value Understanding*
Week 3 **Aug 26st to 30th**	**Topic 2:** *Fluently Add and Subtract Multi-Digit Whole Numbers*
Week 4 **Sep 2nd to 6th**	**Topic 3:** *Use Strategies and Properties to Multiply by 1-Digit Numbers*
Week 5 **Sep 9th to 13th**	**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 16th to 20th** **1 Day of Class** 17~Moon Festival 18-20~ Teacher's Conference	**Topic 4:** *Use Strategies and Properties to Multiply by 2-Digit Numbers* **Teachers' Conference**
Week 7 **Sep 23rd to 27th** 24-26~Pre-Exam Days	**Comprehensive Review of Topics 1-4**
Week 8 **Sep 30th to Oct 4th**	**Comprehensive Review of Topics 1-4**
Week 9 **Oct 7th to 11th** **1 Day of Class** 8-9 ~Q1 Exams 10~Double Ten 11~Record Day	**Topics 1-4 Review and Assessment** *– First Quarter Exams (Tuesday & Wednesday 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 14th to 18th** 14~ Second Quarter Begins	**Topic 5:** *Use Strategies and Properties to divide by 1-Digit Numbers*
Week 2 (11) **Oct 21st to 25th** 25 – Book Fair 25- Masquerade Night	**Topic 5:** *Use Strategies and Properties to divide by 1-Digit Numbers*
Week 3 (12) **Oct 28th to Nov 1st** 1-All Saint's Day Mass	**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) **Nov 4th to Nov 8th**	**Topic 6:** *Use Operations with Whole Numbers to Solve Problems*
Week 5 (14) **Nov 11th to 15th**	**Topic 6:** *Use Operations with Whole Numbers to Solve Problems*
Week 6 (15) **Nov 18th to 22nd**	**Topic 7:** *Factors and Multiples*
Week 7 16) **Nov 25th to 29th** 26-28~Pre-Exam Day	**Topic 7:** *Factors and Multiples*
Week 8 (17) **Dec 2nd to Dec 6th** **6~Half Day** Foundation Day Celebrations	**Topic 8:** *Extend Understanding of Fraction Equivalence and Ordering*
Week 9 (18) **Dec 9th to 13th** **3 Days of Class** 12-13 ~Q2 Exams	**Comprehensive Review of Topics 5-8 and Assessment** *-Second Quarter Exams (Thursday & Friday Half-days)*
Dec 16th to Jan 3rd	**Christmas Break**

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 (19) **Jan 6th to 10th** **4 Days of Class** 6~Record Day 7~Third Quarter Begins	**Topic 9:** *Understand Addition and Subtraction of Fractions*
Week 2 (20) **Jan 13th to 17th**	**Topic 9:** *Understand Addition and Subtraction of Fractions*
Week 3 (21) **Jan 20th to 24th**	**Topic 10:** *Extend Multiplication Concepts to Fractions*
Jan 27th to Jan 31st	**Chinese New Year**
Week 4 (22) **Feb 3rd to 7th**	**Topic 10:** *Extend Multiplication Concepts to Fractions*
Week 5 (23) **Feb 10th to 14th**	**Topic 11:** *Represent and Interpret Data on Line Plots*
Week 6 (24) **Feb 17th to 21st**	**Topic 11:** *Represent and Interpret Data on Line Plots*
Week 7 (25) **Feb 24th to 28th** 24-27~IOWA Assessments 28 ~ Memorial Day Holiday	**Topic 12:** *Understand and Compare Decimals*
Week 8 (26) **March 3rd to 7th** 5~ Ash Wednesday	**Comprehensive Review of Topics 9-12** *IOWA Assessments*
Week 9 (27) **March 10th to 14th** **4 Days of Class** 14-17 – Q3 Exams	**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 (28) **March 17th 21st** **4 Days of Class** 17 – Q3 Exams 18~ Fourth Quarter Begins	**Topic 13:** *Measurement: Find Equivalence in Units of Measure*
Week 2 (29) **March 24th to 28th**	**Topic 13:** *Measurement: Find Equivalence in Units of Measure*
Week 3 (30) **March 31st to April 4th** **4 Days of Class** 4~Tomb Sweeping Day	**Topic 13:** *Measurement: Find Equivalence in Units of Measure*
Week 4 (31) **Apr 7th to 11th**	**Topic 14:** *Algebra: Generate and Analyze Patterns*
April 14th to April 18th	**Easter Break**
Week 5 (32) **Apr 21st to 25th** 26~Spring Fair	**Topic 15:** *Geometric Measurement: Understand Concepts of Angles and Angle Measurement*
Week 6 (33) **Apr 28th to May 2nd** 4/29-5/1~ Pre-Exam Days	**Topic 15:** *Geometric Measurement: Understand Concepts of Angles and Angle Measurement* **Topic 16:** *Lines, Angles and Shapes*
Week 7 (34) **May 5th to 9th**	**Topic 16:** *Lines, Angles and Shapes* **Comprehensive Review of Topics 13-16**
Week 8 (35) **May 12th to 16th** **4 Days of Class** 14-15~ Q4 Exam 16~ Record Day	**Comprehensive Review of Topics 13-16** **Topics 9-12 Review and Assessment** *-Fourth Quarter Exams (Wednesday & Thursday Half-days)*
Week 9 (36) **May 19th to 23rd** **ACTIVITIES:** ***Double check the school calendar and emails from the administration***	**Ancillary Learning Activities** **Various School Events/Activities/Graduations**
Week 10 (37) **May 26th to 30th** **4 Days of Class** 26~House Culminating Activity 27~Gr. 9-11 Recognition and Gr. 12 Graduation 28 Class Party 29- ~ Students Last Day	**Ancillary Learning Activities** **Various School Events/Activities/Graduations**