



Dominican International School  
台北市私立道明外僑學校  
No. 76, Dazhi Street, Taipei (104042), Taiwan, R.O.C.  
10464 臺北市中山區大直街 76 號



## COURSE SYLLABUS

|                    |                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>School Year</b> | 2026-2027                                                                                                                                           |
| <b>Subject</b>     | GRADE 5 MATHEMATICS                                                                                                                                 |
| <b>Grade Level</b> | 5                                                                                                                                                   |
| <b>Teacher</b>     | Mr. Marvin Ulloa (G5D) & Mr. Stephen Black (G5M)                                                                                                    |
| <b>Email</b>       | <a href="mailto:mulloa@dishs.tp.edu.tw">mulloa@dishs.tp.edu.tw</a> (G5D) & <a href="mailto:sblack@dishs.tp.edu.tw">sblack@dishs.tp.edu.tw</a> (G5M) |

**COURSE DESCRIPTION:** This course will help create a foundation for clear mathematics in each student. The course is designed to allow students to master the Common Core State Standards (CCSS) for this grade level. The CCSS aim to provide a consistent, clear understanding in a way that promotes mathematical connections throughout the different units to help emphasize the natural relationships between mathematical concepts. The core textbook, *enVision Mathematics*, embraces time-proven research principles for teaching mathematics with understanding. We know that one understands an idea in mathematics when one can connect that idea to previously learned ideas, so this will help students realize that math is not disconnected, tiny, granular-sized pieces, but a continuum. Infusing cross-cluster connections within topics achieves coherence by helping students see content connections throughout the grade level. Balanced instructions will be used to guide students within the realms of making connections, generalizations, and using knowledge effectively. Problem Solving and Mathematical Practice skills are integrated into every unit, prompting students to make sense of problems and persevere in solving them. Mathematical Practices are the habits of mind, processes, and dispositions that enable a learner to understand mathematics and to do or use mathematics with understanding. Students will have opportunities to explain their thinking, justify a solution, express regularity in repeated reasoning, and share their strategies for arriving at results or identify alternative or more efficient strategies.

**COURSE OBJECTIVES:** By the end of the semester/school year, (SWAT) Students will be able to:



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### **Quarter 1: Topics 1, 2, & 3**

Understand concepts based around place value. Students will have knowledge on how to write numbers using exponents. Students will be able to express their understanding by rounding decimals and using problem-solving skills to add and subtract decimals to the hundredths. Students will be able to show fluency in multiplying multi-digit whole numbers by using mental math to multiply whole numbers by the power of ten. Students will have opportunities to show their understanding by solving word problems involving multiplication.

### **Quarter 2: Topics 4, 5, 11, & 12**

Apply a variety of different models and strategies to multiply decimals. Students will have gained knowledge on different strategies, including estimation to divide whole numbers. Students will be able to show understanding of core concepts related to volume, and be able to solve word problems using this knowledge. Students will have an understanding of how to convert commonly used metric units of length, capacity and mass.

### **Quarter 3: Topics 7, 8 & 9**

Have a greater understanding of operations with fractions. They will have the opportunity to show their understanding by being able to use equivalent fractions to add and subtract fractions. They will be able to determine common denominators and use models to add mixed numbers. Students will be able to multiply & divide fractions by whole numbers, as well as fractions.

### **Quarter 4: Topics 10, 13, 14, 15, & 16**

Interpret and represent line data. They will be able to solve word problems using measurement data. Students will be able to show understanding of the order of operations and use reasoning to evaluate expressions. Students will have gained knowledge within graphing points on a coordinate plane and be able to analyze patterns and relationships. They will also be able to classify two-dimensional figures using geometric measurements.



## PRIMARY TEXTBOOKS AND OTHER RESOURCES:

enVisionMath 2.0 *Pearson*: 2024.

## GRADING SYSTEM/ASSESSMENT:

Assessment should require students to demonstrate the kind of thinking called for in the curriculum. It should also prepare students for major assessments outside the program that may have a variety of selected response and constructed response items. Assessments are therefore hallmarked by the formative assessment integrated into each lesson's core instruction, including high-cognitive level, question-driven classroom conversations. Many assessments include types of items that prepare students for major tests. Students have the opportunity to work individually, in small groups, and in whole class settings to demonstrate the kind of thinking that can be applied during more formal assessments. During class time, mini whiteboards are frequently employed to ensure the teacher can get and give immediate feedback that can be used to ensure understanding, or to allow the teacher to modify future lessons or strategies for either the whole class or individuals. Students are assessed formatively through their in-class work and homework. There will be final unit and quarterly exams for summative assessment throughout the year.

## ADDITIONAL INFORMATION:

**Google Classroom must be checked regularly.** All assignment details are posted there. Students are responsible for checking Google Classroom daily. Students should only join their homeroom teacher's Google Classroom for Math and follow the announcements, instructions, and assignments posted on that page.

**Mr. Ulloa's Math Class code: 3w6rzmr2**

**Mr. Black's Math Class code: av4dsaab**

Please note that **all** set assignments are expected to be completed on time (unless an extension has been agreed in advance with the teacher) to the best of one's ability. Students who cannot meet these expected standards or do not routinely bring the required materials to class may struggle to pass the course. Completing work on time allows students to reflect on and take pride in their own work when given positive feedback, as well as to use the guidance given by the teacher to work on their own areas for development. Students who have not turned the work in on time will not be able to benefit from such advice. As students always have at least 3 days to complete basic homework or class work tasks, failure



to turn work in on time without a reasonable excuse means the assessment grade will be capped at a maximum of 70%.

### **ACADEMIC DISHONESTY:**

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:

- Purposely incorporating the ideas, words of sentences, paragraphs, or parts thereof without appropriate acknowledgment and representing the product as one's work;
- Representing another's intellectual work, such as photographs, paintings, drawings, sculpture, research, or the like, as one's own, including failure to attribute content to an AI.
- Employing a tutor, using Artificial Intelligence without acknowledgment, getting a parent to write a paper or do an assignment, and paying for an essay to be written by someone else and presented as the student's work.
- 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 may result in an automatic zero on the entire assignment/learning task.**



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## First Quarter Tentative Course Content

| Week/Date                                                                                                                                                                                                    | Topic/Projects/Assessments                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Week 1</b><br>(August 11 to 14)<br><u>4 days of class – Start Tues</u><br>11-General Assembly at the Gym<br>14-Opening Mass                                                                               | Getting to Know You Activities and Intro to Course Expectations<br><b><u>Topic 1: Understand Place Value</u></b><br>Lesson 1.1 Patterns with Exponents and Powers of 10 p5-8<br>Lesson 1.2 Understand Whole-Number Place Value p9-12 |
| <b>Week 2</b><br>(August 17 to 21)<br>18-St. Dominic Feast Day Celebration<br>19- House Shirt & Blue Jeans Day<br>21- Club Orientation and Club Sign-up                                                      | <b><u>Topic 1: Understand Place Value</u></b><br>Lesson 1.3 Decimals to Thousandths p13-16<br>Lesson 1.4 Understand Decimal Place Value p17-20<br>Lesson 1.5 Compare Decimals p21-24                                                 |
| <b>Week 3</b><br>(August 24 to 28)<br>26- High School Talk - "Kickstart Your Success: Winning Mindsets for a Great School Year"<br>28- First Club Meeting                                                    | Lesson 1.6 Round Decimals p25-28<br><b><u>Topic 1 Test</u></b><br><b><u>Topic 2: Use Models and Strategies to Add &amp; Subtract Decimals</u></b><br>Lesson 2.2 Estimate Sums and Differences p49-52                                 |
| <b>Week 4</b><br>(August 31 to Sep 4)<br>31- World Day of Prayer for the Care of Creation & VIP Election<br>4- House Ceremony                                                                                | Lesson 2.3 Use Models to Add and Subtract Decimals p53-56<br>Lesson 2.4 Use Strategies to Add Decimals p57-60<br>Lesson 2.5 Use Strategies to Subtract Decimals p61-64                                                               |
| <b>Week 5</b><br>(September 7 to 11)<br>7- Holy Mass: Nativity of the Blessed Virgin Mary & VIP Induction<br>9- House Mini Games Start                                                                       | <b><u>Topic 2 Test</u></b><br><b><u>Topic 3: Fluently Multiply Multi-Digit Whole Numbers</u></b><br>Lesson 3.1 Multiply Greater Numbers by Powers of 10 p81-84<br>Lesson 3.2 Estimate Products p85-88                                |
| <b>Week 6</b><br>(September 14 to 18)<br>15- Catholic Bridge Program for all New Students (After Assembly)                                                                                                   | Lesson 3.3 Multiply by 1-Digit Numbers p89-92<br>Lesson 3.4 Multiply 2-Digit by 2-Digit Numbers p93-96<br>Lesson 3.5 Multiply 3-Digit by 2-Digit Numbers p97-100                                                                     |
| <b>Week 7</b><br>(September 21 to 25)<br><u>4 days of class – Nat Hol Fri</u><br>21- International Day of Peace (During Assembly)<br>Teacher's Day Celebration/Appreciation<br><u>22 to 24-Pre-Exam Days</u> | Lesson 3.6 Multiply Whole Numbers with Zeros p101-104<br><b><u>Topic 3 Test</u></b><br>Topic 1 & 2 Exam Review                                                                                                                       |
| <b>Week 8</b><br><u>4 days of class – Nat Hol Mon</u><br>(Sept 29 to Oct 2)<br>29- Launching of the Month of the Holy Rosary (During Assembly)<br>Oct. 1-2- First Quarter Exam (half day)                    | <b>Whole Quarter Review &amp; <u>QUARTER EXAM</u></b>                                                                                                                                                                                |
| <i>Oct 5 - DIS Teachers and Staff Recognition Day/ Record Day<br/>Recollection for Aunties and Uncles (no classes for students)</i>                                                                          |                                                                                                                                                                                                                                      |



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## Second Quarter Tentative Course Content

| Week/Date                                                                                                                                                                                            | Topic/Projects/Assessments                                                                                                                                                                                                                                               |
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| <i>Oct 6-8 Teacher's Conference (no classes). Oct 9 Double Ten (no classes)</i>                                                                                                                      |                                                                                                                                                                                                                                                                          |
| <b>Week 1 (10)</b><br>(October 12 to 16)<br>13- Mother Mary visit to Classrooms (During the morning prayer)<br>15- Gr. 5 Educational Field Trip?                                                     | <b><u>Topic 4: Use Models and Strategies to Multiply Decimals</u></b><br>Lesson 4.1 Multiply Decimals by Powers of 10 p129-132<br>4.2 Estimate the Product of a Decimal and a Whole Number p133-136<br>4.3 Use Models to Multiply a Decimal and a Whole Number p137-140  |
| <b>Week 2 (11)</b><br>(October 19 to 23)<br>20- Jubilee: Marian Exhibit Opening (After the Monday Assembly)<br>20- Campus Safety Talk for Students<br>24- Book Fair (Senior Escape Room)             | Lesson 4.4 Multiply a Decimal and a Whole Number p141-144<br><b>Topic 4 Test (Part 1)</b><br>Lesson 4.5 Use Models to Multiply a Decimal and a Decimal p145-148                                                                                                          |
| <b>Week 3 (12)</b><br><u>4 days of class – Nat Hol Mon</u><br>(October 27 to 30)                                                                                                                     | Lesson 4.8 Use Number Sense to Multiply Decimals p157-160<br>Lesson 4.9 Problem Solving: Model with Math p161-164<br><b>Topic 4 Test (Part 2)</b><br>Logic Puzzles - Problem-Solving Strategies                                                                          |
| <b>Week 4 (13)</b><br>(November 2 to 6)<br>2- All Soul's Day Mass                                                                                                                                    | <b><u>Topic 5: Use Models and Strategies to Divide Whole Numbers</u></b><br>Lesson 5.1 Use Patterns and Mental Math to Divide p181-184<br>5.3 Use Models & Properties to Divide with 2-Digit Divisors p189-192<br>5.5 Use Sharing to Divide: Two-Digit Divisors p197-200 |
| <b>Week 5 (14)</b><br>(November 9 to 13)<br>9-13- Health Week                                                                                                                                        | Lesson 5.6 Use Sharing to Divide: Greater Dividends p201-204<br><b>Topic 5 Test</b><br><b><u>Topic 11: Understand Volume Concepts</u></b><br>Lesson 11.1 Model Volume p457-460                                                                                           |
| <b>Week 6 (15)</b><br>(November 16 to 20)<br>20- Young Shakespeare Play Writing and Performing Contest                                                                                               | Lesson 11.2 Develop a Volume Formula p461-464<br>Lesson 11.3 Combine Volumes of Prisms p465-468<br><b>Topic 11 Test</b>                                                                                                                                                  |
| <b>Week 7 (16)</b><br>(November 23 to 27)<br>23- Peace Pole Day (Assembly)<br>24-26- Pre-Exam Days<br>26- Thanksgiving Family Day<br>26- Thanksgiving Potluck & Christmas Tree lighting after school | <b><u>Topic 12: Convert Measurements</u></b><br>Lesson 12.5 Convert Metric Units of Capacity p505-508<br>Lesson 12.6 Convert Metric Units of Mass p509-512<br>Lesson 12.4 Convert Metric Units of Length p501-504                                                        |
| <i>Nov. 28 Invitation for All: The Jubilee Pilgrimage to Taipei (Saturday)</i>                                                                                                                       |                                                                                                                                                                                                                                                                          |
| <b>Week 8 (17)</b><br>(November 30 to Dec 4)<br>1-4 & 7 – House Unity Dress up Week                                                                                                                  | <b>Topic 12 Test</b><br>Quarter Review                                                                                                                                                                                                                                   |
| <b>Week 9 (18)</b><br>(December 7 to 11)<br>8- Foundation Day Mass<br>10 & 11 - Second Quarter Exam (half day)                                                                                       | <b>QUARTER EXAM</b> and Christmas Activities                                                                                                                                                                                                                             |
| <i>December 14 to January 4 Christmas &amp; New Year Break</i>                                                                                                                                       |                                                                                                                                                                                                                                                                          |



### Third Quarter Tentative Course Content

| Week/Date                                                                                                                                     | Topic/Projects/Assessments                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>January 4- Record Day (No Classes for students)</i>                                                                                        |                                                                                                                                                                                                                                                                                                          |
| <b>Week 1 (19)</b><br><u>4 days of class – Nat Hol Mon</u><br>(January 5 to 8)<br>5- Third Quarter Begins<br>8- New Year Mass at 8:00         | <b><u>Topic 7: Use Equivalent Fractions to Add and Subtract Fractions</u></b><br>Lesson 7.1 Estimate Sums and Differences of Fractions p269-272<br>Lesson 7.2 Find Common Denominators p273-276                                                                                                          |
| <b>Week 2 (20)</b><br>(January 11 to 15)<br>15- Club Orientation & Sign Up                                                                    | Lesson 7.3 Add Fractions with Unlike Denominators p277-280<br>Lesson 7.4 Subtract Fractions with Unlike Denominators p281-284<br>Lesson 7.5 Add and Subtract Fractions p285-288<br><b>Topic 7.1-7.5 Test</b>                                                                                             |
| <b>Week 3 (21)</b><br>(January 18 to 22)<br>18-22- Career Awareness Week<br>22- First Club for 2nd Semester                                   | Lesson 7.6 Estimate Sums & Differences of Mixed Numbers p289-292<br>Lesson 7.8 Add Mixed Numbers p297-300<br>Lesson 7.10 Subtract Mixed Numbers p305-308                                                                                                                                                 |
| <b>Week 4 (22)</b><br>(January 25 to 29)<br>28- Feast Day of St. Thomas Aquinas/Launching of Catholic Week<br>25-29- Catholic Week Activities | <b>Topic 7.6 - 7.11 Test</b><br><b><u>Topic 8: Apply Understanding of Multiplication to Multiply Fractions</u></b><br>Lesson 8.1 Multiply a Fraction by a Whole Number p333-336<br>Lesson 8.2 Multiply a Whole Number by a Fraction p337-340<br>Lesson 8.3 Multiply Fractions and Whole Numbers p341-344 |
| <b>Week 5 (23)</b><br><u>3 days of class – CNY starts Thurs</u><br>(February 1 to 3)<br>1- CNY Celebration Period 8                           | Lesson 8.4 Use Models to Multiply Two Fractions p345-348<br>Lesson 8.5 Multiply Two Fractions p349-342<br><b>Topic 8 Test</b>                                                                                                                                                                            |
| <i>February 4 to 12: Chinese New Year (no classes)</i>                                                                                        |                                                                                                                                                                                                                                                                                                          |
| <b>Week 6 (24)</b><br>(February 15 to 19)<br>19- House Valentine's Mini Fair                                                                  | <b><u>Topic 9: Apply Understanding of Multiplication to Divide Fractions</u></b><br>Lesson 9.1 Fractions and Division p385-388<br>Lesson 9.2 Fractions and Mixed Numbers as Quotients p389-392<br>Lesson 9.3 Use Multiplication to Divide p393-396                                                       |
| <b>Week 7 (25)</b><br>(February 22 to 26)<br>23-26- IOWA Assessments                                                                          | <b>IOWA ASSESSMENTS FOR MATH</b>                                                                                                                                                                                                                                                                         |
| <b>Week 8 (26)</b><br><u>4 days of class – Nat Hol Mon</u><br>(March 2 to 5)<br>5- Way of the Cross – Lower School<br>2-4- Pre-Exam Days      | Lesson 9.4 Divide Whole Numbers by Unit Fractions p397-400<br>Lesson 9.5 Divide Unit Fractions by Non-Zero Whole Numbers p401-404<br>Lesson 9.6 Divide Whole Numbers and Unit Fractions p405-408<br><b>Topic 9 Test</b>                                                                                  |
| <b>Week 9 (27)</b><br>(March 8 to 12)<br>13 and 16 - Quarter 3 Exam (half day)                                                                | Quarter Review & <b><u>QUARTER EXAM</u></b>                                                                                                                                                                                                                                                              |
|                                                                                                                                               | <b>Due to Q4 being short for Promoting Classes, G5 will instead write their Q3 Exams in Q3W9 and start teaching Q4 content in Q3W10.</b>                                                                                                                                                                 |
| <b>Week 10 (28)</b>                                                                                                                           | <b><u>Topic 10: Represent and Interpret Data</u></b>                                                                                                                                                                                                                                                     |



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|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| (March 15 to 19)                                                                              | Lesson 10.1 Analyze Line Plots p429-432<br>Lesson 10.2 Make Line Plots p433-436                                                    |
| <b>Week 11 (29)</b><br><u>3 days of class – Easter Break starts Thurs</u><br>(March 22 to 24) | Lesson 10.3 Solve Word Problems Using Measurement Data p437-440<br>Lesson 10.4 Critique Reasoning p441-444<br><b>Topic 10 Test</b> |

## Fourth Quarter Tentative Course Content

| Week/Date                                                                                                                                               | Topic/Projects/Assessments                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Week 1 (30)</b><br><u>3 days of class – Nat Hol Mon &amp; Tue</u><br>(April 7 to 9)<br>9- G5 Recollection                                            | <b>Topic 13: Write and Interpret Numerical Expressions</b><br>Lesson 13.1 Evaluate Expressions p537-540<br>Lesson 13.2 Write Numerical Expressions p541-544<br><b>Topic 13 Test</b>                                                                     |
| <i>April 10 (Saturday) Spring Fair</i>                                                                                                                  |                                                                                                                                                                                                                                                         |
| <b>Week 2 (31)</b><br>(April 12 to 16)<br>15- Easter Mass, Easter Egg Hunt for LS Students<br>16- Lower School Readers Theatre                          | <b>Topic 14: Graph Points on the Coordinate Plane</b><br>Lesson 14.1 The Coordinate System p565-568<br>Lesson 14.2 Graph Data Using Ordered Pairs p569-572<br>Lesson 14.3 Solve Problems Using Ordered Pairs p573-576                                   |
| <b>Week 3 (32)</b><br>(April 19 to 23)<br>Spirit Week                                                                                                   | <b>Topic 15: Algebra: Analyze Patterns and Relationships</b><br>Lesson 15.1 Numerical Patterns p593-596<br>Lesson 15.2 More Numerical Patterns p597-600<br>Topic 14 & 15 Review Lesson<br><b>Topic 14 &amp; 15 Test</b>                                 |
| <b>Week 4 (33)</b><br><u>4 days of class – Nat Hol Fri</u><br>(April 26 to 30)<br>27-29- Pre-Exam Days                                                  | <b>Topic 16: Geometric Measurement: Classify Two-Dimensional Figures</b><br>Lesson 16.1 Classify Triangles p621-624<br>Lesson 16.2 Classify Quadrilaterals p625-628<br>Lesson 16.3 Continue to Classify Quadrilaterals p629-632<br><b>Topic 16 Test</b> |
| <b>Week 5 (34)</b><br>(May 3 to 7)<br>3-7 Final Exams (K, Gr. 5, 8, & 12)                                                                               | Quarter Review & <b>QUARTER EXAM</b>                                                                                                                                                                                                                    |
| <b>Week 6 (35)</b><br>(May 10 to 14)<br><u>4 days of class</u> 14- Record Day (Fri)                                                                     | Grade 5 Preparation for the G5 Promotion Ceremony                                                                                                                                                                                                       |
| <b>Week 7 (36)</b><br>(May 17 to 21)<br>17- Baccalaureate Mass<br>18- Lower School Sports Day<br>19- House Sports Day<br>21- House Culminating Activity | Grade 5 Preparation for the G5 Promotion Ceremony                                                                                                                                                                                                       |
| <b>Week 8 (37)</b><br>(May 24 to 28)<br>25- Grade 5 Promotion; 28- Last Day of School                                                                   | Grade 5 Promotion                                                                                                                                                                                                                                       |

*“Kindling the Light of Faith, Hope, and Love: The Legacy of St. Dominic de Guzmán”*