



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

School Year	2025-2026
Subject	GRADE 5 MATHEMATICS
Grade Level	5
Teacher	Mr. Zachary Tannoia (G5D) & Mr. Stephen Black (G5M)
Email	ztannoia@dishs.tp.edu.tw (G5D) & sblack@dishs.tp.edu.tw (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.



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

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.



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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. Tannoia's Math Class code: 3rxcbh22

Mr. Black's Math Class code: tosqud5v

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, and at least two weeks to prepare and work on bigger projects, failure to turn work in on time without a reasonable excuse means the assessment grade will be capped at a maximum of 70%.



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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 will 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
Week 1 (August 12 to 15) 4 days of class 12-General Assembly at the Gym 15-Opening Mass	Getting to Know You Activities and Intro to Course Expectations Topic 1: Understand Place Value Lesson 1.1 Patterns with Exponents and Powers of 10 p5-8 Lesson 1.2 Understand Whole-Number Place Value p9-12
Week 2 (August 18 to 22) 18-St. Dominic Feast Day Celebration Integrated during Assembly 20- House Shirt & Blue Jeans Day 22- Club Orientation and Club Sign-up	Topic 1: Understand Place Value Lesson 1.3 Decimals to Thousandths p13-16 Lesson 1.4 Understand Decimal Place Value p17-20 Lesson 1.5 Compare Decimals p21-24
Week 3 (August 25 to 29) 27- High School Talk - "Kickstart Your Success: Winning Mindsets for a Great School Year" 29- First Club Meeting	Lesson 1.6 Round Decimals p25-28 Topic 1 Test Topic 2: Use Models and Strategies to Add & Subtract Decimals Lesson 2.1 Mental Math p45-48 Lesson 2.2 Estimate Sums and Differences p49-52 Lesson 2.3 Use Models to Add and Subtract Decimals p53-56
Week 4 (September 1 to 5) 1- World Day of Prayer for the Care of Creation (During Monday Assembly) 5- House Ceremony	Lesson 2.3 Use Models to Add and Subtract Decimals p53-56 Lesson 2.4 Use Strategies to Add Decimals p57-60 Lesson 2.5 Use Strategies to Subtract Decimals p61-64
Week 5 (September 8 to 12) 8- Holy Mass: Nativity of the Blessed Virgin Mary & VIP Induction 10- House Mini Games Start	Topic 2 Test Topic 3: Fluently Multiply Multi-Digit Whole Numbers Lesson 3.1 Multiply Greater Numbers by Powers of 10 p81-84 Lesson 3.2 Estimate Products p85-88
Week 6 (September 15 to 19) 15- Catholic Bridge Program for all New Students (After Assembly) 19- Athletics / Sports Orientation	Lesson 3.3 Multiply by 1-Digit Numbers p89-92 Lesson 3.4 Multiply 2-Digit by 2-Digit Numbers p93-96 Lesson 3.5 Multiply 3-Digit by 2-Digit Numbers p97-100
Week 7 (September 22 to 26) 22- Celebration of the International Day of Peace-Peace Pole Ceremony (During the Monday Assembly) Teacher's Day Celebration & 26- Teachers' Appreciation 24 to 26-Pre-Exam Days	Lesson 3.6 Multiply Whole Numbers with Zeros p101-104 Topic 3 Test Topic 1 & 2 Exam Review
Week 8 (Sept 29 to Oct 3) 29- Launching of the Month of the Holy Rosary (During Assembly) Oct. 1-2- First Quarter Exam (half day)	Whole Quarter Review & QUARTER EXAM
<i>Oct. 3-DIS Teachers and Staff Recognition Day/ Record Day Recollection for Aunties and Uncles (no classes for students)</i>	



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Second Quarter Tentative Course Content

Week/Date	Topic/Projects/Assessments
<i>6-Moon Festival (no classes)</i>	
<i>7-9 Teacher's Conference (no classes)</i>	
Week 1 (11) (October 13 to 17) 13- Second Quarter Begins 14- Mother Mary visit to Classrooms (During the morning prayer)	<u>Topic 4: Use Models and Strategies to Multiply Decimals</u> Lesson 4.1 Multiply Decimals by Powers of 10 p129-132 4.2 Estimate the Product of a Decimal and a Whole Number p133-136 4.3 Use Models to Multiply a Decimal and a Whole Number p137-140
Week 2 (12) (October 20 to 24) 20- Jubilee: Marian Exhibit Opening (After the Monday Assembly) 20- Campus Safety Talk for Students 24- Book Fair (Senior Escape Room)	Lesson 4.4 Multiply a Decimal and a Whole Number p141-144 Topic 4 Test (Part 1) Lesson 4.5 Use Models to Multiply a Decimal and a Decimal p145-148 Logic Puzzles - Problem-Solving Strategies
Week 3 (13) (October 27 to 31) Oct. 31 to Nov. 1- Gr.6 SEL Camp	Lesson 4.6 Multiply Decimals Using Partial Products p149-152 Lesson 4.8 Use Number Sense to Multiply Decimals p157-160 Lesson 4.9 Problem Solving: Model with Math p161-164 Topic 4 Test (Part 2)
Week 4 (14) (November 3 to 7) 3- Feast of St. Martin de Porres Mass (integrated during Assembly) 5- Monthly Career Talk - College Prep	<u>Topic 5: Use Models and Strategies to Divide Whole Numbers</u> Lesson 5.1 Use Patterns and Mental Math to Divide p181-184 5.2 Estimate Quotients with 2-Digit Divisors p185-188 5.3 Use Models & Properties to Divide with 2-Digit Divisors p189-192 5.5 Use Sharing to Divide: Two-Digit Divisors p197-200
Week 5 (15) (November 10 to 14) 14- Health Week 14- VIP-Parent Learning Community	Lesson 5.6 Use Sharing to Divide: Greater Dividends p201-204 Lesson 5.7 Choose a Strategy to Divide p205-208 Topic 5 Test
Week 6 (16) (November 17 to 21) 17- Launching of Mental Health and Anti-Bullying Month 21- Young Shakespeare Play Writing and Performing Contest	<u>Topic 11: Understand Volume Concepts</u> Lesson 11.1 Model Volume p457-460 Lesson 11.2 Develop a Volume Formula p461-464 Lesson 11.3 Combine Volumes of Prisms p465-468 Lesson 11.4 Solve Word Problems Using Volume p469-472
Week 7 (17) (November 24 to 28) 24- Peace Pole Day (Assembly) 24- Lighting of the Christmas Tree after school 25-27- Pre-Exam Days 27- Thanksgiving Potluck after school for teachers & staff 27- Thanksgiving Family Day	Topic 11 Test <u>Topic 12: Convert Measurements</u> Lesson 12.5 Convert Metric Units of Capacity p505-508 Lesson 12.6 Convert Metric Units of Mass p509-512 Lesson 12.4 Convert Metric Units of Length p501-504
<i>Nov. 29 Invitation for All: The Jubilee Pilgrimage to Taipei (Saturday)</i>	
Week 8 (18) (December 1 to 5) 1- First Week of Advent: Lighting of	Topic 12 Test Quarter Review



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Advent Candle (During Assembly) 5- Nativity Play & Christmas Fair Whole Day	
Week 9 (19) (December 8 to 12) 8- Foundation Day Mass and Class Party (half day) 8- Solemnity of the Immaculate Conception 8- Second Week of Advent 11 & 12 - Second Quarter Exam (half day)	QUARTER EXAM and Christmas Activities
<i>December 13 Invitation for All: Advent Recollection @DIS (Saturday)</i>	
<i>December 15 to January 2 Christmas Break</i>	

Third Quarter Tentative Course Content

Week/Date	Topic/Projects/Assessments
<i>January 5- Record Day (No Classes for students)</i>	
Week 1 (20) (January 5 to 9) 6- Third Quarter Begins 9- New Year Mass at 8:00	<u>Topic 7: Use Equivalent Fractions to Add and Subtract Fractions</u> Lesson 7.1 Estimate Sums and Differences of Fractions p269-272 Lesson 7.2 Find Common Denominators p273-276
Week 2 (21) (January 12 to 16) 16- Club Orientation & Sign Up	Lesson 7.3 Add Fractions with Unlike Denominators p277-280 Lesson 7.4 Subtract Fractions with Unlike Denominators p281-284 Lesson 7.5 Add and Subtract Fractions p285-288 Topic 7.1-7.5 Test
Week 3 (22) (January 19 to 23) 19-23- Individual Yearbook Photoshoot for Students 19-23- Career Awareness Week 23- First Club for 2nd Semester	Lesson 7.6 Estimate Sums & Differences of Mixed Numbers p289-292 Lesson 7.8 Add Mixed Numbers p297-300 Lesson 7.10 Subtract Mixed Numbers p305-308 Lesson 7.11 Add and Subtract Mixed Numbers p309-312 Topic 7.6 - 7.11 Test
Week 4 (23) (January 26 to 30) 26- Feast Day of St. Thomas Aquinas/Launching of Catholic Week 26-28- Aquinas Conference: Science/Faith 26-30- Catholic Week Activities	<u>Topic 8: Apply Understanding of Multiplication to Multiply Fractions</u> Lesson 8.1 Multiply a Fraction by a Whole Number p333-336 Lesson 8.2 Multiply a Whole Number by a Fraction p337-340 Lesson 8.3 Multiply Fractions and Whole Numbers p341-344
Week 5 (24) (February 2 to 6) 1-4- WASC Mid-Cycle Visit	Lesson 8.4 Use Models to Multiply Two Fractions p345-348 Lesson 8.5 Multiply Two Fractions p349-342 Topic 8 Test
Week 6 (25) (February 9 to 13) 9- Start of New Applicant Enrollment for 1st Semester for SY2025-26 13- House Valentine's Mini Fair 13- Chinese New Year Celebration	<u>Topic 9: Apply Understanding of Multiplication to Divide Fractions</u> Lesson 9.1 Fractions and Division p385-388 Lesson 9.2 Fractions and Mixed Numbers as Quotients p389-392 Lesson 9.3 Use Multiplication to Divide p393-396



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February 16-20 Chinese New Year Holiday

Week 7 (26) (February 23 to 26) 23-26- IOWA Assessments 24-26- Pre-Exam Days	IOWA ASSESSMENTS FOR MATH
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February 27 Memorial Day Holiday (no classes)

Week 8 (27) (March 2 to 6) 3- Monthly Career Talk - College Prep 6- PSAT 8/9 System Installation and Practice Test	Lesson 9.4 Divide Whole Numbers by Unit Fractions p397-400 Lesson 9.5 Divide Unit Fractions by Non-Zero Whole Numbers p401-404 Lesson 9.6 Divide Whole Numbers and Unit Fractions p405-408 Topic 9 Test
Week 9 (28) (March 9 to 13) 13 and 16 - Quarter 3 Exam (half day)	Quarter Review & QUARTER EXAM

Fourth Quarter Tentative Course Content

Week/Date	Topic/Projects/Assessments
Week 1 (29) (March 16 to 20) 16- Third Quarter Exam (half day) 16-20- Faculty Yearbook Photo 17- Fourth Quarter Begins 19- Lectio Divina & Feast of St. Joseph 20- Parents Learning Community Meeting 20- Kindilympics 20-House Movie Night and Club Fair	Topic 10: Represent and Interpret Data Lesson 10.1 Analyze Line Plots p429-432 Lesson 10.2 Make Line Plots p433-436
March 21 (Saturday) Spring Fair	
Week 2 (30) (March 23 to 27) 23-27 Student Leaders Applicant Interviews 27- Lower School Readers Theatre	Lesson 10.3 Solve Word Problems Using Measurement Data p437-440 Lesson 10.4 Critique Reasoning p441-444 Topic 10 Test
March 30 to April 6 Easter/Spring Break	
Week 3 (31) (April 7 to 10) 7- Spring University Fair 9- Easter Mass 9- Easter Egg Hunt for LS Students	Topic 13: Write and Interpret Numerical Expressions Lesson 13.1 Evaluate Expressions p537-540 Lesson 13.2 Write Numerical Expressions p541-544 Topic 13 Test
Week 4 (32) (April 13 to 17) 13 Laudato Si Month Launching (During the Monday Assembly) 13-30 Laudato Si Month Activities 13-17- Class Photo Taking	Topic 14: Graph Points on the Coordinate Plane Lesson 14.1 The Co-ordinate System p565-568 Lesson 14.2 Graph Data Using Ordered Pairs p569-572 Lesson 14.3 Solve Problems Using Ordered Pairs p573-576
Week 5 (33) (April 20 to 24) 20-24 Cultural Awareness Week / Art Exhibit / Earth Week 24- Music Recital 20-24 Student Council Campaign	Topic 15: Algebra: Analyze Patterns and Relationships Lesson 15.1 Numerical Patterns p593-596 Lesson 15.2 More Numerical Patterns p597-600 Topic 14 & 15 Review Lesson



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	Topic 14 & 15 Test
Week 6 (34) (April 27 to 30) 27- Student Council Elections 28-30 Pre-Exam Days	Topic 16: Geometric Measurement: Classify Two-Dimensional Figures Lesson 16.1 Classify Triangles p621-624 Lesson 16.2 Classify Quadrilaterals p625-628 Lesson 16.3 Continue to Classify Quadrilaterals p629-632 Topic 16 Test
<i>May 1: Labor Day Public Holiday</i>	
Week 7 (35) (May 4 to 8) 4- May Crowning & Mother's Day Celebration (During Assembly) 4-14 Final Exams (K, Gr. 5, 8, & 12)	Quarter Review & QUARTER EXAM
Week 8 (36) (May 11 to 15) 13 & 14- Fourth Quarter Exam (half day)	Early exams for G5 as a promoting class. Students will use this week to prepare for their Promotion Ceremony.
<i>May 15 Record Day (No Classes for students) Final Deliberation for Graduating/Promoting Classes</i>	
Week 9 (37) (May 18 to 22) 18- Gr. 5 Recollection & Mass 19- Gr. 8 Recollection & Mass 20- Gr. 12 Recollection 20- Baccalaureate Mass (Whole School) 18-21 WIDA Testing 19- Lower School Sports Day 19- Gr. 9 - 11 - "Senior Success Forum: Inspiring the Next Generation" 19-22 Student Clearance Days 21- Middle & High School Sports Day 22- House Culminating Activity 20-22 Final Deliberation for Non-Graduating Classes 22- Student Leaders One Day Recollection / Turn Over Ceremony	
Week 10 (38) (May 25 to 29) 25- Kindy Graduation/Gr. 5 Promotion 26- LS Field Trip 26- Gr. 8 and Gr. 12 Graduation 27- Pre-Kindergarten & Gr. 1 - 4, 6 & 7, 9-11 Recognition Last Day of School, Report Card 28-Distribution, & Class Party (half day) 29- Last day for Teachers/Staff Meeting	

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