



Math

COURSE SYLLABUS

GRADE LEVEL: Pre-Kindergarten

SCHOOL YEAR: 2023 - 2024

TEACHER: Ms. Vivian Lee

Ms. Christine Lai

MAIL: vlee@dishs.tp.edu.tw

clai@dishs.tp.edu.tw

COURSE DESCRIPTION:

The curriculum for Kindergarten Math we use Common Core Math as our standards. The kindergarten math program offers basic math skills that children will need for their future learning. We begin our learning journey by introducing topics that are at their level, such as 1-5, shapes and patterns, in conjunction with our SLOs and DIS's VISION MISSION, which insure children learning in a fun and practical matter. Students will start by learning mathematics vocabulary, recognizing the number characters, counting and finally adding and subtraction. By doing so, we give children the necessary words to express their mathematical ideas and give children the meaning of each number characters. We include math into our classroom activities in many different ways, such as sing counting songs, count and color items and use basic adding concept into our games. To make math more applicable, we also teach children how to apply math in their daily life, for example using money to buy things, which makes children realize we can also use math outside of the classroom.

COURSE OBJECTIVES:

At the end of the course students should be able to:

1. Count from 1-10.
2. Recognize numerals.
3. Recognize and name basic shapes.
4. Recognize and create the shapes that have symmetry.
5. Understand the pattern.
6. Recognize the measurable attributes of length, weight, capacity, and temperature.
7. Compare objects according to their attributes.
8. Understand time of day and time of year.
9. Recognize the order of events.
10. Associate characteristic with season.
11. Collect, organize, analyze, and display data.
12. Understand the meanings and effects of the addition and subtraction.

ASSESSMENT:

- Oral assessment:
 - After each lesson, students' ability of answering topic related questions will be count as part of the oral assessment.

- At the end of each unit, the ability to point out and elaborate on the flash cards that represent key vocabularies of the unit will be another oral assessment.
- Check List:
 - A check list made according to the standers will be use to assess children's understanding after each unit.
- Observation:
 - A spontaneous in class observation will be done by teacher as a major identification of each child's understanding of the topic.
- Written Assessment:
 - At the end of each semester a written exam will be given.

PRIMARY TEXTBOOK & OTHER RESOURCES

World of Wonders Unit 1 to 10

Shanahan, T., Fisher, D., & Walker-Dalhouse, D. (2017). *World of Wonders: Developing Early Learners*. McGraw-Hill Education.

ADDITIONAL INFORMATION

Please see Google Classroom for more information.

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 Welcome to K1 Getting Children ready for the upcoming year!
Week 2 Aug 14th to 18th <i>15 ~ Opening Mass</i>	Counting: <ul style="list-style-type: none"> - Count by clapping - Count by finger - Count by jumping - Oral counting Songs: <ul style="list-style-type: none"> - Number songs - Counting songs Games: <ul style="list-style-type: none"> - Find groups of 2 and 3 - Number Matching
Week 3 Aug 21st to 25th	Counting: <ul style="list-style-type: none"> - Count by clapping - Count by finger - Count by jumping - Oral counting Songs: <ul style="list-style-type: none"> - Number songs - Counting songs Counting Games: <ul style="list-style-type: none"> - Counting Numbers 1-5 - Compare numbers - Number Games Numeral Writing: <ul style="list-style-type: none"> - Writing 1-3 Game: <ul style="list-style-type: none"> - Match the writing with the counters
Week 4 Aug 28th to Sep 1st	Song: <p>The Number songs-five little duck, 5 little monkey, the ants are marching, 1-2 buckle my shoes.</p> <ul style="list-style-type: none"> - Five Little Ducks - Five Little Monkeys

	<ul style="list-style-type: none"> - The Ants Are Marching - 1-2 Buckle My Shoes Numeral Writing: <ul style="list-style-type: none"> - Writing 4-5
Week 5 Sep 4th to 8th <i>8 ~ Holy Mass & VIP Induction</i>	Counting Review: <ul style="list-style-type: none"> - Counting Numbers 1-5 - Count in different ways - Counting songs - Compare Numbers - Number Games Numeral Writing: <ul style="list-style-type: none"> - Writing 1-5
Week 6 Sep 11th to 15th <i>12-14 ~ Pre-Exam Days</i>	Identify shapes: <ul style="list-style-type: none"> - Circle - Square Games: <ul style="list-style-type: none"> - Shape sort - Shape puzzle
Week 7 Sep 18th to 22nd	Identify shapes: <ul style="list-style-type: none"> - Triangle - Rectangle Games: <ul style="list-style-type: none"> - Shape sort - Count 1-5 with the shapes - Shape hunt
Week 8 Sep 25th to 29th No Classes <i>25-28 ~Teacher's Conference</i> <i>29 – Moon Festival Holiday</i>	Pattern with shapes: <ul style="list-style-type: none"> - Pattern game - Count with shapes Games: <ul style="list-style-type: none"> - Count with the shapes - Finger play: Song - Five Little Ducks
Week 9 Oct 2nd to 6th 3 Days of Class <i>5-6 ~Q1 Exams</i>	Number / Shapes / Shape Attributes <ul style="list-style-type: none"> - Counting songs - Count patterns - Compare shapes and sides - Triangle has 3 sides and 3 vertices - Square has 4 sides and 4 vertices Art: <ul style="list-style-type: none"> - Making shape art

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 3 Days of Class <i>9-10 – Double 10 Holiday</i>	Counting Numbers: <ul style="list-style-type: none"> - Introduce 6 - Review 1-5 - Number book Games:

	<ul style="list-style-type: none"> - Count with counters
Week 2 (11) Oct 16th to 20th	Counting: <ul style="list-style-type: none"> - Count with shapes - Make a number book with shapes Numeral Writing: <ul style="list-style-type: none"> - Review 1-5 - Write 6 Song: <ul style="list-style-type: none"> - Number song Games: <ul style="list-style-type: none"> - Computer activities
Week 3 (12) Oct 23rd to 27th	Counting: <ul style="list-style-type: none"> - Counting 7 Games: <ul style="list-style-type: none"> - Count and match 7 - Counting with our body - Count the sides of the shapes and match with the number Numeral Writing: <ul style="list-style-type: none"> - Writing 7
Week 4 (13) Oct 30th to Nov 3rd <i>1 - All Saint's Day Mass</i>	Counting: <ul style="list-style-type: none"> - Counting 8 Games: <ul style="list-style-type: none"> - Count and match 8 - Counting with our body - Count the sides of the shapes and match with the number Numeral Writing: Writing 8
Week 5 (14) Nov 6th to 10th	Counting: <ul style="list-style-type: none"> - Counting 9 Games: <ul style="list-style-type: none"> - Count and match 9 - Counting with our body - Count the sides of the shapes and match with the number Numeral Writing: Writing 9
Week 6 (15) Nov 13th to 17th	Counting: <ul style="list-style-type: none"> - Counting 10 Games: <ul style="list-style-type: none"> - Count and match 10 - Counting with our body - Count the sides of the shapes and match with the number Numeral Writing: Writing 10
Week 7 (16) Nov 20th to 24th	Number sequences <ul style="list-style-type: none"> - Put numbers in orders Game: <ul style="list-style-type: none"> - Connect the numbers Count forward and backward <ul style="list-style-type: none"> - Learn how to count to 10 and count back Number match
Week 8 (17) Nov 27th to Dec 1st	Review <ul style="list-style-type: none"> - Sorting numbers - Matching the number with the counters
Week 9 (18) Dec 4th to 8th <i>8 - Foundation Day Celebrations</i>	Exam Review: Numbers 1-10 <ul style="list-style-type: none"> - Count - Read - Match Shapes

	<div>- Name</div> <div>- Compare</div> <div>Pattern</div>
<div>Week 10 (19)</div> <div>Dec 11th to 15th</div> <div><u>3 Days of Class</u></div> <div><i>14-15 ~ Q2 Exams</i></div>	Exam Week
Dec 18 th to Jan 1 st	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>	Counting Numbers: <ul style="list-style-type: none"> - Review numbers 1-10 - Count by jumping - Oral counting - Introduce 11 Songs: <ul style="list-style-type: none"> - Number songs - Counting songs Counting Games: <ul style="list-style-type: none"> - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: <ul style="list-style-type: none"> - Writing 11 Game: <ul style="list-style-type: none"> - Match the writing with the counters
Week 2 (21) Jan 8th to 12th	Counting Numbers: <ul style="list-style-type: none"> - Review numbers 1-11 - Count by clapping - Introduce 12-13 Songs: <ul style="list-style-type: none"> - Number songs - Counting songs Counting Games: <ul style="list-style-type: none"> - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: <ul style="list-style-type: none"> - Writing 12-13 Game: <ul style="list-style-type: none"> - Match the writing with the counters
Week 3 (22) Jan 15th to 19th	Counting Numbers: <ul style="list-style-type: none"> - Review numbers 1-13 - Count by clapping - Introduce 14-15 Songs: <ul style="list-style-type: none"> - Number songs - Counting songs Counting Games: <ul style="list-style-type: none"> - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: <ul style="list-style-type: none"> - Writing 14-15 Game: <ul style="list-style-type: none"> - Match the writing with the counters
Week 4 (23) Jan 22nd to 26th	Solid Shapes <ul style="list-style-type: none"> - Sphere - Rectangular Prism Introduce the shapes
Week 5 (24) Jan 29th to Feb 2nd	Solid Shapes: <ul style="list-style-type: none"> - Cube - Cone Introduce shapes
Week 6 (25) Feb 5th to 9th	Compare attribute <ul style="list-style-type: none"> - Sides and corners

<u>3 Days of Class</u> 8-9 ~ <i>CNY</i>	
Feb 8th to 16th	CNY Holiday
Week 7 (26) Feb 19th to 23rd 19 ~ <i>Lenten Mass</i> 21-23 ~ <i>Pre-Exam Days</i>	Build Your shapes Use the attributes to build your own shape
Week 8 (27) Feb 26th to March 1st <u>4 Days of Class</u> 28 ~ 228 Memorial Day Holiday	Review Solid Shapes
Week 9 (28) March 4th to 8th <u>4 Days of Class</u> 8 ~ <i>Q3 Exams</i>	Counting Numbers: - Review numbers 1-15 - Introduce 16-17 Songs: - Number songs - Counting songs Counting Games: - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: - Writing 16-17 Game: - Match the writing with the counters - Computer activities

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>	Counting Numbers: - Review numbers 1-16 - Introduce 17-18 Songs: - Number songs - Counting songs Counting Games: - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: - Writing 17-18 Game: - Computer activities
Week 2 (30) March 18th to 22nd <i>18-21 ~ Fire Drill</i>	Counting Numbers: - Review numbers 1-18 - Introduce 19-20 Songs: - Number songs Counting Games: - Counting Numbers 1-20 - Compare numbers - Number Games Numeral Writing: - Writing 19-20 Game: - Bingo - Computer activities
March 25th to Apr 5th	Easter Holiday
Week 3 (31) Apr 8th to 12th <i>10 ~ Easter Mass</i>	Measure height - Tall vs Short - Compare different height
Week 4 (33) Apr 15th to 19th	Measure weight - Heavy vs Light Which one is heavy which one is light
Week 5 (34) Apr 22th to 26th <i>22-26 ~ AP Mock Exams</i>	Measure length - Long vs Short Compare different length
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>	Measure capacity - More Capacity vs Less Capacity Compare different capacity
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>	Review / Exam Week
Week 8 (37) May 13th to 17th <u>2 Days of Class</u> <i>15-16 ~ Q4 Exams</i> <i>17 ~ Record Day</i>	Exam Week
Week 9 (38) May 20th to 24th	Activity Week ----- <i>20-24 ~ Student Clearance Days</i>

<p><u>ACTIVITIES:</u> Double check the school calendar and emails from the administration.</p>	<p>21 ~ Baccalaureate Mass for Graduating classes 22 & 23 ~ Middle & High School Sports Day 23 ~ Pre-Kindergarten & Gr. 1 - 4 Recognition/Kindergarten Graduation/Gr. 5 Promotion 24 ~ Gr. 6 – 7 Recognition and Gr. 8 Graduation 24 ~ Lower School Sports Day</p>
<p>Week 10 (39) May 27th to 31st <u>ACTIVITIES:</u> Double check the school calendar and emails from the administration.</p>	<p>Activity Week ----- 27 ~ House Culminating Activity 28 ~ Gr. 9-11 Recognition and Gr. 12 Graduation 29 ~ Class Party 30 ~ Last Day of School & Report Card Distribution (half day) 31 ~ Teachers/Staff Meeting</p>