

Science COURSE SYLLABUS

GRADE LEVEL: Pre-Kindergarten SCHOOL YEAR: 2024 - 2025

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COURSE DESCRIPTION:

The curriculum for Kindergarten Science is based on NGSS standards, which provide lessons that fulfill children's natural cravings for things around them. It builds the basic science skills, like observation, measurement, comparison and classification for children. We begin our learning journey by introducing topics that are at their level, such as My Five Senses, Plants I Can Eat and Our Sky. In conjunction with our SLOs and DIS's VISION MISSION, to prove children with fun and practical learning experience. Kindergarten Science studies of the weather, plants, animals, and nature, which will provide children with stimulation on topics they are eager to learn. We teach children methods to investigate the world, make sense of their findings, and time to learn about how their world works. By using our kindergarten Science program, we foster children's development of science knowledge and lead them on a lifelong journey of inquiry.

COURSE OBJECTIVES:

By the end of the course, students should be able to:

- Identify and describe the five senses.
- Use the five senses to learn about the word.
- Identify the sensory organ associated with each sense.
- Observe many properties of one thing.
- Classify things as living and nonliving.
- Describe characteristics of living things.
- Describe characteristics of nonliving things.
- Sort out living and nonliving things.
- Compare animals by size, shapes, or body coverings.
- Identify ways animal moves.
- Observe and illustrate what an animal needs.
- Recognize that animals need food, water, air and shelter to survive.
- Compare the similarities between the needs of humans and animals.
- Describe an animal's life cycle.
- Sequence pictures to show how animals grow and change.
- Understand that animals and plants can be found in different habitats and environments.
- Know that animals need food, water, shelter, and space to live.
- Describe different environments where animals and plants live.
- Identify the movement of the objects by using pushes and pulls.
- Describe different kinds of weather.
- Identify the differences between daytime and nighttime.

- Understand ways they can help keep the Earth clean.
- Identify the materials that can be recycled.

ASSESSMENT:

- Oral assessment:
 - After each lesson, students' ability of answering topic related questions would 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 the key vocabularies of the unit will be another oral assessment.
- Check list:
 - A checklist made according to the standards will be use to assess children's understand after each unit.
- Observation:
 - Teacher does a spontaneous in class observation as a major identification of children's understanding of the topic.
- Written assessment:
 - At the end of each semester, a written exam will be in place.

PRIMARY TEXTBOOK & OTHER RESOURCES

Hackett, J., Keeley, P., Moyer, R., Vasquez, J. A., Zike, D., & Fisher, D. (2020). *Inspire Science: Early Learners*. McGraw-Hill Education.

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.

<u>Academic Dishonesty</u> 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 Al.
- 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 12 th to 16 th 4 Days of Class 12~ First Day / Orientation Day 15~ Opening Mass & Assumption of Our Lady 8:00 15~ Induction of Class, Student Council Officers and DYM	Orientation Welcome to K1 Getting Children ready for the upcoming year!
Week 2 Aug 19 th to 23 rd	Observe Your World Inquiry activity: - Describe materials - Encourage children to observe materials with a hand lens Use different tools to measure objects
Week 3 Aug 26st to 30th 26~Fire drill? 26~Middle and High School Catholic Bridge Program (after assembly) 28~St. Dominic de Guzman Feast Day Celebration	Our 5 Senses: - Introduce the 5 senses - eye, nose, hand, tongue, ear - The 5 senses song Game: Use your senses to sort.
Week 4 Sep 2 nd to 6 th 2~House Ceremony	Review 5 senses Game: - I spy (using our sight) - Compare and sort Song: - Five Senses song - Fuzzy Suzzy
Week 5 Sep 9 th to 13 th 9~ Mass & Birthday Mother Mary& VIP Induction	Review 5 Senses Game: Sort bottoms/ rocks - Encourage children to use their senses to sort the rocks - Ask children to difference between the 2 objects.
Week 6 Sep 16 th to 20 th	People Needs of People - What do people need to survive?

1 Day of Class 17~Moon Festival 18-20~ Teacher's Conference	Inquiry Activity: - Your needs
Week 7 Sep 23 rd to 27 th 24-26~Pre-Exam Days	People People Grow and Change - How do people change as they grow? Inquiry Activity: - Young and old
Week 8 Sep 30 th to Oct 4 th	People Our Bodies - How do our body help us survive? Inquiry Activity: - Moving body parts
Week 9 Oct 7 th to 11 th 1 Day of Class 7~Launching - Rosary Month and Bullying Prevention Day 8-9 ~Q1 Exams 10~Double Ten 11~Record Day	Review People Art: Make a People Collage

2nd QUARTER – TENTATIVE COURSE CONTENT

(NB: Depe	(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 th to 18 th 14~ Second Quarter Begins	Living/ Non-Living - Definition of living things - Identify living things	
Week 2 (11) Oct 21 st to 25 th 25 – Book Fair 25- Masquerade Night	- What does living thing need? - Identify some living things around us	
Week 3 (12) Oct 28 th to Nov 1 st 1-All Saint's Day Mass	Insects - Show children insects - Definition of an insect Question: Are Insects living or nonliving things?	
Week 4 (13) Nov 4 th to Nov 8th	Life Cycle of a butterfly - Show children the life cycle of a butterfly	
Week 5 (14) Nov 11 th to 15 th	Review - Living or nonliving - Life cycle of a butterfly	
Week 6 (15) Nov 18 th to 22 nd 22-Gr.12 Q2 Exam 22 - YSC Contest	Plants - Plant is living or nonliving? Needs of Plants - What do plants need to survive?	
Week 7 16) Nov 25 th to 29 th 25-Gr.12 Q2 Exam 26-28~Pre-Exam Day	Plants Plants Grow and Change - How do plants grow and change?	
Week 8 (17) Dec 2 nd to Dec 6 th	Plant Characteristics Parts of the plant	

6~Half Day Foundation Day Celebrations	- Look at a plant - Different parts of the plant Review Plants Arts: Make your own flower
Week 9 (18) Dec 9 th to 13 th 3 Days of Class 12-13 ~Q2 Exams	Exam Week
Dec 16th to Jan 3rd	Christmas Break

<u>3rd QUARTER – TENTATIVE COURSE CONTENT</u>

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)	
Week / Date	Topic / Projects / Assessments
Week 1 (19) Jan 6 th to 10 th 4 Days of Class 6~Record Day 7~Third Quarter Begins 10 ~ New Year Mass	Observing Animals Look at the shape of the animals, the color of the animals Animal need What do animals need to survive? -Food, water, shelter,
Week 2 (20) Jan 13 th to 17 th	What can animals do? -grow, sleep, reproduce
Week 3 (21) Jan 20 th to 24 th	Types of animals: Birds, reptiles, fish, mammals
Jan 27th to Jan 31st	Chinese New Year
Week 4 (22) Feb 3 rd to 7 th	Animals all around: Look at different places animals live.
Week 5 (23) Feb 10 th to 14 th 1-14-Catholic Week	Ways Objects Move - How can objects move? Inquiry Activity: - Moving objects
Week 6 (24) Feb 17 th to 21 st	Push and Pull -How can we move objects? Inquiry Activity: - Push and pull objects
Week 7 (25) Feb 24 th to 28 th 4 Days of Class 24~Lenten Mass? 25-27 ~ Pre-Exam Days 24-27~IOWA Assessments 28 ~ Memorial Day Holiday	Speed and Direction -How can you change the speed and direction of objects?
Week 8 (26) March 3 rd to 7 th 5~ Ash Wednesday	Investigate Water: Experiment: 3 matters of water
Week 9 (27) March 10 th to 14 th 4 Days of Class 14 – Q3 Exams	Water: Different kind of water Vocabulary: lake, pond, river

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 17 th 21 st 4 Days of Class 17 – Q3 Exams 18~ Fourth Quarter Begins 18~ Fire Drill? 19~ Feast of St. Joseph	Land: Different kinds of land. Vocabulary: valley, mountain, grass land
Week 2 (29) March 24 th to 28 th	Objects in the Sky - What objects are in the sky? - How can you tell if it is day or night? Inquiry Activity: - Day and Night Sky
Week 3 (30) March 31st to April 4th 4 Days of Class 4~Tomb Sweeping	The Sun's Effect on Earth - How does the sun affect Earth? - How can you feel the sun? Inquiry Activity: - The Sun's Light and Heat
Week 4 (31) Apr 7 th to 11 th	What's the weather? Sunny, cloudy, rainy and snowy Experiment: How do we make rain?
April 14 th to April 18 th	Easter Break
Week 5 (32) Apr 21 st to 25 th 23~Easter Mass 21-25 ~ AP Mock Exams 26~Spring Fair	4 seasons - What are the seasons - What is the weather like in different season?
Week 6 (33) Apr 28 th to May 2 nd 4/29-5/1~ Pre-Exam Days 1-2~ Final Exams (K, 5, 8, 12 only)	Take Care of Earth -What's good for Earth? What's bad for Earth?
Week 7 (34) May 5 th to 9 th 5-9~ Final Exams (K, 5, 8, 12 only) 5-9 ~ AP Exams	Take Care of Earth Vocabulary: recycle, reuse, reduce, compose Game: Recycle items
Week 8 (35) May 12 th to 16 th 4 Days of Class 14-15~ Q4 Exam 16~ Record Day 12-16~ AP Exams	Exam Week
Week 9 (36) May 19 th to 23 rd 19-23 ~ Student Clearance 19~ Baccalaureate Mass 23~Gr. 6 - 7 Recognition and Gr. 8 Graduation	Activity Week
Week 10 (37) May 26 th to 30 th 4 Days of Class 26~House Culminating Activity 27~Gr. 9-11 Recognition and Gr. 12 Graduation 28! Class Party	Activity Week

29- ~ Students Last Day	
30~ Teachers/Staff Meeting	