



SCIENCE COURSE SYLLABUS

GRADE LEVEL: Kindergarten

SCHOOL YEAR: 2021-2022

TEACHER: Donna Wolfe

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COURSE DESCRIPTION:

The curriculum for Kindergarten Science fulfills 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 animals, Plants and days and night, in conjunction with our SLOs and DIS's VISION MISSION, which insure children learning in a fun and practical matter. 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 and make sense of their findings. We give children time to learn about their world and how it 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:

- Identify and describe the five senses.
- Use the five senses to learn about the world.
- 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 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.
- Observed similarities between the basic needs of humans and the basic needs of other animals.
- Describe an animal's life cycle.
- Sequence pictures to show how animals grow and change.
- Understand that animals and plants are 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 matters as a solid, a liquid, or a gas.
- Observe and describe properties of objects.
- Compare and sort based on observable properties.
- Observed that sound is made when objects vibrate.
- Identify sounds and the sources of their vibrations.
- Compare sounds for loudness.

ASSESSMENT:

- **Observation/Anecdotal Records:** Teacher observes and records student participation and discussion using checklists or rating scales.
- **Performance:** Students can illustrate through artistic expression or retelling, an event or scene from one of the lessons discussed.
- **Questioning:** When sharing information teachers may question students on their understanding.
- **Work Samples or Portfolio:** Collect illustrations as work samples to include in student portfolios.
- **Unit Assessment:** Oral and Writing Exam each quarter.
- **Projects:** Students demonstrate an active participation in questions and answer when doing Science projects or experiment.
- **Seatwork and Homework:** Students submit the seatwork and homework in the allotted time.

PRIMARY TEXTBOOK & OTHER RESOURCES

Dispezio et al. (2012). *Science Fusion*. Orlando, FL: Houghton Mifflin Harcourt Publishing Company

REFERENCE/LINKS:

Our school website: <http://www.dishs.tp.edu.tw/>

Merriam-Webster Online Dictionary & Thesaurus:

<http://www.m-w.com/home.htm>

Publisher website:

<https://www-k6.thinkcentral.com/ePC/start.do?orgID=88203648>

SUPPLEMENTARY RESOURCES:

- Online videos and activities
- Science practical projects in the classroom or indoor.

ADDITIONAL INFORMATION – Please see Google Classroom for more information. Class code:

Copying (plagiarism) is a serious offense and a form of theft. In certain cases, it is also a criminal offense. It is defined as taking words, phrasing, sentence structure, or any other element of the expression of another person's ideas, and using them as if they were your own. Plagiarism is a violation of another person's rights, whether the material stolen is great or small – it is not a matter of degree or intent. Plagiarism has serious consequences.

Any act of plagiarism will result in an automatic zero on the entire assignment

SUBJECT: SCIENCE Gr. K2
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 9th to 13th 3 Days of Class <i>11 - First Day / Orientation Day</i> <i>?? - Opening Mass</i>	<ul style="list-style-type: none"> • Parents and student orientation • Environmental Language • Classroom commands and routine
Week 2 Aug 16th to 20th	Unit 1 Doing Science Lesson 1 How do we use our senses?
Week 3 Aug 23rd to 27th	Lesson 2 How do we use science skills?
Week 4 Aug 30th to 3rd	Lesson 3 How do we use science tools? Unit 1 Review and Assessment
Week 5 Sep 6th to 10th	Unit 2 Animals Lesson 4 What are loving things?
Week 6 Sep 13th to 17th FYI – Pre-Exam Days	Lesson 5 What is real? What is pretend?
Week 7 Sep 20th to 24th No Classes <i>20-21 - Moon Festival</i> <i>22-24 – Teacher’s Conference</i>	NO CLASSES: HOLIDAY/TEACHER’S CONFERENCE
Week 8 Sep 27th to Oct 1st	Lesson 6 What are Animals like?
Week 9 Oct 4th to 8th 3 Days of Class <i>7-8 – Q1 Exams</i>	Lessons 7 What do animals need?

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 11th to 15th 4 Days of Class <i>11 – Double 10 Holiday</i>	Lesson 8 How do animals grow and change? Unit 2 Review and Assessment

Week 2 (11) Oct 18th to 22nd	Unit 3 Plants Lesson 9 What are plants like?
Week 3 (12) Oct 25th to 29th	Lesson 10 What do plants need?
Week 4 (13) Nov 1st to 5th	Lesson 11 What are some plant parts?
Week 5 (14) Nov 8th to 12th	Lesson 12 How do plants grow and change? Unit 3 Review and Assessment
Week 6 (15) Nov 15th to 19th	Unit 4 Habitats Lesson 13 Where do animals and plants live?
Week 7 (16) Nov 22nd to 26th <i>?? - YSC Contest</i>	Lessons 14 Why do Animals and plants need one another? Unit 4 Review and Assessment
Week 8 (17) Nov 29th to Dec 3rd FYI – Pre-Exam Days	Unit 5 Lesson 15 What is in the day Sky?
Week 9 (18) Dec 6th to 10th <i>8 - Foundation Day Celebrations</i>	Lesson 16 What is in the night sky? Quarter Review and Assessment
Week 10 (19) Dec 13th to 17th <u>3 Days of Class</u> <i>16-17 – Q2 Exams</i>	Quarter Exam
Dec 20th to Jan 2nd	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 (20) Jan 4th to 7th <u>4 Days of Class</u> <i>3 ~ Record Day</i>	Unit 6 Earth Resources Lesson 17 What are Rocks?

<i>5 – Q3 Begins</i>	
Week 2 (21) Jan 10th to 14th	Lesson 18 What is water?
Week 3 (22) Jan 17th to 21st	Lesson 19 How Do We use and conserved natural resources? Unit 6 Review and Assessment
Week 4 (23) Jan 24th to 28th	Unit 7 Weather and the Season Lesson 20 What is weather?
Feb 29th to 6th	Chinese New Year
Week 5 (24) Feb 7th to 11th	Lesson 21 How can we measure Weather?
Week 6 (25) Feb 14th to 18th	Lesson 22 What are the Season? Unit 7 Review and Assessment
Week 7 (26) Feb 21st to 25th	Unit 8 Matter Lesson 23 How do we describe and sort matter?
Week 8 (27) Feb 28th to 4th 4 Days of Class 28 – 228 Memorial Day Holiday FYI – Mass + Pre-Exam Days	Lesson 24 How can we change matter? Unit 8 Review and Assessment
Week 9 (28) March 7th to 11th	Unit 9 Energy Lesson 26 What is sound?
Week 10 (29) March 14th to 18th 4 Days of Class <i>18 – Q3 Exams</i>	Lesson 27 What is light?

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 (30) March 21st to 25th 4 Days of Class <i>21 – Q3 Exams</i>	Lesson 28 What is heat? Unit 9 Review and Assessment

Week 2 (31) March 28th to Apr 1st	Unit 10 Motion Lesson 29 How do we describe location?
Week 3 (32) Apr 4th to 8th 3 Days of Class <i>4-5 ~ Tomb Sweeping holiday</i>	Lesson 30 How do things move?
Apr 9th to 17th	Easter Break
Week 4 (33) Apr 18th to 22nd	Lesson 31 How can we change the way things move?
Week 5 (34) Apr 25th to 29th FYI – Pre-Exam Days	Lesson 32 Which objects do magnets attract? Unit 10 Review and Assessment
Week 6 (35) May 2nd to 6th	Quarter Review
Week 7 (36) May 9th to 13th	Exam Review
Week 8 (37) May 16th to 20th <i>20 – Q4 Exams</i>	Quarter Exam
Week 9 (38) May 23rd to 27th <i>23 – Q4 Exams</i>	Graduation Rehearsal
Week 10 (39) May 30th to 2nd 4 Days at School <i>3 ~ Dragon Boat Festival</i>	Graduation