



Dominican International School Kaohsiung

高雄市私立道明外僑學校

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Course Syllabus

Subject: Science

Grade: K SY: 2023-2024

Teacher: Ms. Maileen B. Pacio

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Course Description:

In Kindergarten students develop science concepts skills in the areas of observation, classification, measurement, communication, inference and prediction, problem-solving and developing hypotheses. Students will use evidence to explain how or why something happens. Students are actively engaged in exploring how the world works around them. The 5E model for effective science: Engage, Explore, Explain, Extend and Evaluate for effective learning from situations in which one builds on understanding based upon personal experiences. The student centered learning syllabus incorporates and develops learners' understanding of scientific concepts, subject specific vocabulary and through the use of inquiry based learning opportunities, such as experiments, projects and 'hands on' group activities.

Course Requirements:

- The course will be conducted through lectures, discussions, practice material, projects, and student presentations. Students are strongly encouraged to raise questions and make comments in class. Participation is the key to success.
- Students are required to complete each assignment by the due date that is assigned. Staying on track with assignments will facilitate understanding of the class material.
- Students are encouraged to communicate concerns to teachers and ask for help as needed throughout the school year.
- Students are expected to organize their own class materials and to keep their work neat and tidy. Parents are encouraged to help students by labeling personal items with identification stickers with the student's name in English.
- Students will observe all school policies as outlined in the DISK Handbook. This includes arriving at school on time, abiding by the dress code, and speaking only English on the school grounds.

- Students will observe all school policies on Academic Honesty, as outlined in the DISK Handbook. All cases of academic misconduct (such as cheating on tests or plagiarism) will automatically result in a "Fail" grade for the assignment, in addition to any sanctions that may be imposed by the School Discipline office.

Textbooks:

Science Fusion

Dispezio, Michael A., et al. *ScienceFusion*. Houghton Mifflin Harcourt, 2012.

Classroom Rules and Expectations:

- As you enter at the beginning of the day, respectfully place all property and related materials in the correct place (Ex: backpacks in own cubbies, communication book in related folder).
- During lessons, please raise your hand to speak and speak in English.
- Bring all required materials (pencils, markers, scissors, etc) to class.
- Students must enter the classroom in a quiet and controlled manner.
- The doors should be gently closed with care.
- Students must not leave the room without supervision of a teacher and/or permission from a teacher.
- Respect the personal space of others while moving around the room or lining up. We respectfully keep our hands to ourselves.
- All snacks are to be eaten outside of the room. Only water is allowed in the classroom.

Classroom Expectations: Be a STAR!

- Spiritual: Be grateful for learning opportunities and kind to others.
- Truthful: Be the friend that is dependable and honest.
- Active: Come to class ready to participate.
- Responsible: You are in charge of your materials and assignments.
- Studious: Stay focused on your study goals and you will reach them.

Class Materials Required:

- Science Fusion textbook
- Science notebook
- Pencil case with pencils, erasers, glue, ruler etc.

Assessment:

30% Class Participation & Seatwork

30% Homework, Minor Projects, & Portfolio

30% Quarter Exam, Assessment, Unit Tests, & Major Projects

10% Department

Quarter One - Pacing Guide

DATE	TOPIC
Q1 W1	Introduction, rules, and procedures / How Do We Use Our Senses?
W2	How Do We Use Science Skills?
W3	How Do We Use Science Tools?
W4	What Are Living Things?
W5	What Is Real? What Is Pretend?
W6	What Are Animals Like? What Do Animals Need?
W7	How Do Animals Grow and Change?
W8	Review material- Q1 Assessment

Quarter Two - Pacing Guide

DATE	TOPIC
Q2 W1	What Are Plants Like?
W2	What Do Plants Need?
W3	What Are Some Plant Parts?
W4	How Do Plants Grow and Change?
W5	Where Do Animals and Plants Live?
W6	Why Do Animals and Plants Need One Another?
W7	What Is in the Day Sky?
W8	What Is in the Night Sky?

W9	Review Material- Q2 Assessment
W10	Unit 4-5 Review and Assessment

Quarter Three - Pacing Guide

DATE	TOPIC
Q3 W1	What Are Rocks?
W2	What Is Water?
W3	How Do We Use and Conserve Natural Resources?
W4	What Is Weather?
W5	How Can We Measure Weather?
W6	What Are the Seasons?
W7	How Do We Describe and Sort Matter?
W8	How Can We Change Matter?
W9	How Can Heating and Cooling Change Matter?
W10	Review Material- Q3 Assessment

Quarter Four - Pacing Guide

DATE	TOPIC
Q4 W1	ITBS Practice/ Testing
W2	What Is Sound?
W3	What Is Light?

W4	What Is Heat?	
W5	How Do We Describe Location?	
W6	How Do Things Move?	
W7	How Can We Change the Way Things Move?	
W8	Which Objects Do Magnets Attract?	
W9	Review material	
W10	Q4 Assessment	