

## Dominican International School Kaohsiung



### **Course Syllabus**

**Subject:** Science  
**Teacher:** Mr. Blain

**Grade:** 4      **School Year:** 2023-2024  
**Email:** dblain@disk.kh.edu.tw

### **Course Description:**

*Overall Description:* The science course for Grade 4 has been developed to reflect real-world situations through active and engaging opportunities for learning. Students will be encouraged to think critically about the world around them as they explore topics in the areas of nature, life, earth, and physical science. Learning activities include hands-on experimentation, group discussions, independent reading and response, and research projects.

### **Course Textbooks/Programs:**

#### Primary Textbook

Dispezio, M. A., Frank, M., Heithaus, M. R., & Ogle, D. (2012). *Science fusion*. Orlando, FL: Holt McDougal/Houghton Mifflin Harcourt.

### **Class Materials Required:**

- *Science Fusion* textbook
- One (1) spiral-bound lined notebook, size A4
- \*Plus\* Items on *Grade 4 Required Classroom Materials List*

## **Classroom Expectations**

In order to promote a safe and positive classroom community and an environment conducive to learning, all students will:

### **Respect Self**

- Listen and follow directions the first time they are given
- Come to class prepared and on time
- Complete all assignments
- Choose to use words that are appropriate for school
- Speak only in English
- Do your best!

### **Respect Others**

- Listen actively to what others have to say and take turns in conversations
- Raise your hand before speaking
- Follow all of the DISK Handbook rules and procedures

### **Respect Property**

- Handle all school and classroom equipment appropriately and with care
- Ask before touching other people's belongings

## **Assessment:**

Formative, summative, and pre-assessments in the form of projects, quizzes, homework assignments, presentations, quizzes, tests, and quarter exams contribute to the final quarter grade. In addition, students will be assessed for deportment following the D<sup>OP</sup> STARS School-wide Learning Objectives (SLOs): Spiritual, Truthful, Active, Responsible, and Studious.

30% Class Participation & Seatwork, Homework

30% Minor Projects, Portfolio, Unit Tests & Major Projects

30% Quarter Exam/Assessment

10% Deportment

## Quarter One - Pacing Guide

Week/Dates	TOPIC/TARGETS
Week 1	<b>Unit 1: Studying Science</b> Lesson 1 What Do Scientists Do?
Week 2	Lesson 2 What Skills Do Scientists Use?
Week 3	Lesson 3 How Do Scientists Collect and Use Data?
Week 4	Lesson 4 Why do Scientists Compare Results?
Week 5	Lesson 5 What Kinds of Models Do Scientists Use?
Week 6	<b>Unit 2: The Engineering Process</b> Lesson 1 What is an Engineering Design Process?
Week 7	Lesson 3 What is Technology?
Week 8	Review material for Q1 Exam
Week 9	Q1 Exam Week

## Quarter Two - Pacing Guide

Week/Dates	TOPIC/TARGETS
Week 1	<b>Unit 3: Plants and Animals</b> Lesson 1 What Are Some Plant Structures and How Do Plants Reproduce?
Week 2	Lesson 2 Life Cycle of a Plant
Week 3	Lesson 4 How Do Animals Reproduce?
Week 4	Lesson 5 How Are Living Things Adapted to Their Environment?
Week 5	<b>Unit 4: Energy and Ecosystems</b> Lesson 2 What is a Food Chain?
Week 6	Lesson 3 What is a Food Web?
Week 7	Lesson 5 How Do People Impact Ecosystems and Their Environment?
Week 8	Review material for Q2 Exam
Week 9	Q2 Exam Week
Week 10	Christmas Program

## Quarter Three - Pacing Guide

Week/Dates	TOPIC/TARGETS
Week 1	<b>Unit 6: Earth and Space</b> Lesson 1 How Do The Earth, Sun and Moon Interact?
Week 2	Lesson 2 What Are Moon Phases?
Week 3	Lesson 4 What Are the Planets in Our Solar System?
Week 4	Lesson 5 How Can We Model the Sun and Planets
Week 5	<b>Unit 5: The Weather</b> Lesson 1 What is the Water Cycle?
Week 6	Lesson 2 What Are Types of Weather?
Week 7	Lesson 3 How Is Weather Predicted?
Week 8	Lesson 4 Inquiry - How can we observe weather patterns?
Week 9	Q3 Exam Week
Week 10	ITBS Testing

## Quarter Four- Pacing Guide

Week/Dates	TOPIC/TARGETS
Week 1	<b>Unit 9: Energy</b> Lesson 1 What Are Some Forms of Energy?
Week 2	Lesson 2 Lesson 3 What Is Heat?
Week 3	Lessons 4 & 5 What Are Conductors and Insulators?
Week 4	<b>Unit 10 Electricity</b> Lesson 1 What Is Electricity?
Week 5	Lessons 2 & 3
Week 6	Lesson 4 What Are Electric Circuits, Conductors, and Insulators?
Week 7	Lesson 5 How Do We Use Electricity? Q4 Material Review for Exams
Week 8	Q4 Exams
Week 9	Yearly review
Week 10	<ul style="list-style-type: none"> <li>• Honors Assembly</li> <li>• Closing Mass</li> <li>• Graduation/Last Day of School</li> </ul>