Dominican International School Kaohsiung

Course Syllabus

Subject: Science Grade: 3 SY: 2023-2024
Teacher: Ms. Wolmarans Email: bwolmarans@disk.kh.edu.tw

Course Description:

In Science, emphasis is placed on the inquiry process, developing investigative skills and understanding the nature of science. Grade 3 students continue to learn about the life processes of plants and animals and their interactions within Earth's ecosystems. They explore the states and properties of matter. animal behavioral and physical adaptations and response to the environment; relationships among organisms in aquatic and terrestrial food chains; soil, its origins and importance to living things; patterns and cycles in nature; plant and animal life cycles; the water cycle and the importance of water to living things; how natural events and human actions can affect species, and the importance of sources of energy.

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 date that it is assigned. Staying on track with assignments will facilitate understanding of the class material.
- Assignment books are available to each student. If there is difficulty in completing the assignments, the teacher must be notified before class the next day.
- 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 textbook

Classroom Rules and Expectations:

- Have materials ready for class
- Be attentive
- Participate in class discussions and activities
- Work as a valuable team member
- Complete tasks as directed using your creativity
- Be proud of your answers or work
- Display safety when completing Science experiments
- Have fun!

Class Materials Required:

- Pencils, eraser, highlighters
- Notebook
- Various items for experiments
- Scientific tools (hand lens, thermometer, balance scale, etc.)

Assessment:

- 30% Class Participation & Seatwork, Homework
- 30% Minor Projects, Portfolio, Unit Tests & Major Projects
- 30% Quarter Exam/Assessment
- 10% Deportment

Quarter One - Pacing Guide

DATE	CHAPTER & LESSON TARGET
Week 1	Introduction to the class, rules, procedures, Unit 1 Investigating Questions: ● Lesson 1-How do scientists investigate questions? ● Lesson 2- How can you use a model?
Week 2	Unit 1 Introduction to Science ● Lesson 3-How do scientists use tools? ● Lesson 4- How can you measure length?
Week 3	Unit 1 Introduction to Science ● Lesson 5-How do scientists use data? ● Lesson 6- How do your results compare?
Week 4	Unit 1 Introduction to Science ● Unit 1 Quiz
Week 5	Unit 2 The Engineering Process: ● Lesson 1-How do engineers use the design process? ● Lesson 2- How can you design a treehouse?
Week 6	Unit 2 The Engineering Process: ● Lesson 3-How are technology and society related? ● Lesson 4- How can we improve a design?
Week 7	Unit 2 The Engineering Process: ●Unit 2 Quiz Unit 3 Plants and Animals: ● Lesson 1-What are some plant life cycles? ● Lesson 2- What are some animal life cycles?
Week 8	Unit 3 Plants and Animals: ● Lesson 3-How do living things change? ● Lesson 4-What are structural adaptations?
Week 9	**Exams**

Quarter Two - Pacing Guide

DATE	TOPIC/LESSON TARGET
Week 1	Unit 3 Plants and Animals: ● Lesson 5-How can we model a physical adaptation? ● Lesson 6-What are behavioral adaptations?
Week 2	Unit 3 Plants and Animals: ● **Unit 3 Quiz** Unit 4 Ecosystems and Interactions: ● Lesson 1-What are ecosystems? ● Lesson 2-What's in an ecosystem?
Week 3	Unit 4 Ecosystems and Interactions: ● Lesson 3-What is a food chain? ● Lesson 4-What are some food chains?
Week 4	Unit 4 Ecosystems and Interactions: ● Lesson 5-How do environmental changes affect living things? ● **Unit 4 Quiz**
Week 5	Unit 5 Changes to Earth's Surface: ● Lesson 1-What are some landforms? ● Lesson 2-How does Earth's surface change slowly?
Week 6	Unit 5 Changes to Earth's Surface: ● Lesson 3-How can we model erosion? ● Lesson 4-How does Earth's surface change quickly? ● **Unit 5 Quiz**
Week 7	**Unit 5 Quiz** Unit 6 People and Resources: ● Lesson 1-What are some natural resources? ● Lesson 2-How can we conserve resources?
Week 8	Unit 6 People and Resources: ● Lesson 3-What is soil? ● **Unit 6 Quiz**
Week 9	**Exams**
Week 10	Christmas Preview Q3

Quarter Three - Pacing Guide

DATE	TOPIC/LESSON TARGET
Week 1	Unit 7 Water and Weather ● Lesson 1-What is the water cycle? ● Lesson 2-What is weather?
Week 2	Unit 7 Water and Weather ● Lesson 3-How can we measure weather? ● Unit 7 Test
Week 3	Unit 8 Earth and Its Moons ● Lesson 1-How do Earth and its moon move?
Week 4	Unit 8 Earth and Its Moons ● Lesson 2-How can we model the moon's phases?
Week 5	Unit 8 Earth and Its Moons ● Unit 8 Test
Week 6	Unit 9 Matter ● Lesson 1 What Are Some Physical Properties?
Week 7	Unit 9 Matter ● Lesson 2 What Are The States of Matter?
Week 8	Unit 9 Matter ● Lesson 3 What Physical Properties Can We Observe?
Week 9	Review Unit 7 & 8
Week 10	**Exams**

Quarter Four - Pacing Guide

DATE	TOPIC/LESSON TARGET
Week 1	ITBS TESTING
Week 2	Unit 9 Matter ● Lesson 4 What Are Some Changes to Matter?

Week 3	Unit 9 Matter ● Lesson 5 What Changes Can We Observe?
Week 4	Unit 9 Matter ● Unit 9 Test
Week 5	Unit 10 Simple and Compound Machines ● Lesson 1-What are simple machines?
Week 6	Unit 10 Simple and Compound Machines ● Lesson 2-What are some other simple machines?
Week 7	Unit 10 Simple and Compound Machines ● Lesson 2- How Do Simple Machines Affect Work? ● Unit 10 Test
Week 8	**Exams**
Week 9	Final Week