Dominican International School Kaohsiung

高雄市私立道明外僑學校

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Course Syllabus

Subject: Science   Grade: 1   SY: 2023-2024
Teacher: Ms. Lorna Pringle   Email: lpringle@disk.kh.edu.tw

Course Description:

In Grade 1, 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 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
Dispezio, Michael A., et al. *ScienceFusion*. Houghton Mifflin Harcourt, 2012.

Classroom Rules and Expectations:
- As you enter at the beginning of the day, turn ALL homework into the homework basket and assignment books into the assignment book basket.
- 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 will be given time to prepare to leave for another class.
- Leave quietly and use only the front stairs.

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 and workbook
- Science notebook
- Pencil case with pencils, erasers, glue, ruler 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	TOPIC	UNIT
Week 1	Introduction, rules, and procedures; Senses and other tools	Unit 1 - How Scientists Work (Pgs. 1-41)
Week 2	Using our senses	
Week 3	Inquiry skills - measuring and modeling	
Week 4	Applying inquiry skills	
Week 5	Fingerprint Experiment and Review	
Week 6	Unit 1 Assessment; How do engineers work?	Unit 2 - Technology All Around Us (Pgs. 45-77)
Week 7	Problem solving strategies and materials	
Week 8	Sorting materials	
Week 9	Review material for exams - Q1 Exams	
Diary dates	• 08/19 Parent Teacher Meeting • 09/29 Mid-Autumn Festival • 10/02 - 10/06 Exam Week	

Quarter Two - Pacing Guide

Date	TOPIC	UNIT
Week 10	Living and nonliving things; Animal needs	Unit 3 - Animals (Pgs. 81-125)
Week 11	Differences between animals;	

Week 12	Grouping animals	
Week 13	Unit 3 Assessment; Introduction to plants	
Week 14	Growing plants	Unit 4 - Plants (Pgs. 129-169)
Week 15	Parts of plants	
Week 16	Differences between plants	
Week 17	Comparing leaves	
Week 18	Review material for exams - Q2 Exams	
Week 19	Review Units 1-4	
Diary Dates	● 10/10 Double Ten Day ● 12/04 - 12/08 Exam Week ● 12/18 - 01/02 Christmas Holiday / Winter Vacation	

Quarter Three - Pacing Guide

Date	TOPIC	UNIT
Week 20	Introduction to natural resources	Unit 6 - Earth's Resources (Pgs. 197-251)
Week 21	Sorting rocks and soil; Rock observations	
Week 22	Differences in soil; Water and where to find it	
Week 23	Unit 6 Assessment	

Week 24	Introduction to weather	Unit 7 - Weather and Seasons (Pgs. 255-287)
Week 25	Weather observations	
Week 26	Seasons	
Week 27	Build a rain gauge	
Week 28	Review material for exams	
Week 29	Q3 Exams	
Diary Dates	• 02/08 - 02/16 CNY • 02/28 Memorial Day Holiday • 03/04 - 03/08 Exam Week	

Quarter Four - Pacing Guide

DATE	TOPIC	UNIT
Week 30	What can we see in the sky?	Unit 8 - Objects in the Sky (Pgs. 291-317)
Week 31	Changes in the sky Moon calendar	
Week 32	Movement of the sun	
Week 33	Observing objects	Unit 9 - All About Matter (Pgs. 325-351)
Week 34	Solids, liquids, and gasses	
Week 35	Measuring temperature	

Week 36	Changing matter	
Week 37	Review material - Q4 Exam	
Week 38	End of School Year Activities	
Diary dates	04/01 - 04/05 Spring Break 05/20 - 05/24 Exam Week 05/30 - End of Grade 1	