

Tokyo International Progressive School

Grade 7, Science Course Outline

2023-2024

Ms.Koh, Music Room



DESCRIPTION OF COURSE

In this course, students will develop their understanding in the core ideas of the physical sciences by building off of concepts learned in elementary school and applying new skills to understanding higher level scientific content. Students will be given the opportunity to use models, conduct investigations, interpret data to construct explanations and apply mathematical thinking.

The course consists of four units:

1) Energy

- Kinetic, potential, thermal energy
- Energy transfers

2) Structures and Properties of Matter

- Atomic composition of molecules
- Changes of state of matter

3) Chemical Reactions

- Properties of substances
- Chemical reactions and processes

4) Forces, Interactions, Waves and Electromagnetic radiation

- Newton's law of motion
- Electric and magnetic forces
- Gravitational interactions
- Behavior of waves and information transfer

STUDENT EXPECTATIONS

Students are required to bring their pencil case, water bottle, computer and folder. Students may not eat food during class.

Once students enter the classroom, they are expected to sit quietly and wait for the instructions for the day.

Students will be given worksheets and online resources to practice the various scientific concepts. If a numbered lent textbook is not returned in usable condition by the required date, your family will be asked to pay for a replacement for the book.

If assignments are not submitted by the assigned due date, parents will be informed and the student will be required to attend WIN to complete the incomplete assignment.

For every day a student is excused, tardy or absent, they will have two school days to complete any work from the missed class(s). All assignments and paperwork that was due at the beginning of the missed class (e.g., homework, projects, reports, signed papers, etc.) will be due on the day of return. Students have a responsibility to ask the teacher for any missed work from their absences.

If a student requires more time to complete their assignment, the student must take responsibility and inform the teacher with the reasons for needing extra time. If the reasons are legitimate, the teacher will set a new due date for the assignment. If a student is unable to complete the assignment by the new designated due date, the student will earn a zero as their grade for that assignment.

If a student receives a failing grade in a test, the student will receive the opportunity to have a re-test. The student will be asked to re-answer the questions they got wrong in their first attempt, along with a verbal explanation of their new answer. If the new answer is correct, half of the original point(s) the question was worth will be added on to the original score the student received in the test.

EARNING YOUR GRADE

Your grade will be determined by your work in these categories:

6Ps (Prepared/Punctual/Productive. Positive/Pleasant/Polite) Positive/pleasant/polite behaviors articulated govern how members of the TIPS	10%
--	-----

community are expected to treat each other. Prepared/punctual/productive behaviors guarantee academic success.	
Daily Work Daily work is anything students complete in class and directly linked to the objective for the lesson.	25%
Quizzes Short assessments between 5-10 questions, taking 5-10 minutes to complete. Quizzes are formative assessments used to check students' progress throughout the course.	20%
Project Assignments are longer tasks, designed to practice skills including research, organization, group work, and presentation. Projects will usually take more than one class period to complete and will involve completing some of the work outside of class time.	25%
Progress Tests Progress Tests are summative assessments given at the end of a unit and cover all the material learned in that unit.	20%

The grading scale for this course will be:

Letter grade	Mark range
A+	97-100
A	92-96
B+	88-91
B	83-87
C+	79-82
C	74-78
D+	70-73
D	65-69
F	64 or below

IMPORTANT DATES *(may change throughout the school year)*

Assessment	Date
Energy Project and Tests	Week 4 (September)
Energy Lab Assessment	Week 7 (October)
Structure of Matter Project and Test	Week 13 (November)
Reactions Lab Assessment	Week 17 (December)
Chemistry of Materials Test	Week 23 (February)
Forces and Motions Project and test	Week 29 (March)
Design Project	Week 33 (April)
Electric and Magnetic Forces Test	Week 36 (May)
Waves and Information Transfer Project and Test	Week 38 (June)