

Tokyo International Progressive School

Grade G12 Business Mathematics 1: 2026-2027

Mr. Steven Kilty, Room 25

Contact: skilty@tokyoips.com

DESCRIPTION OF COURSE

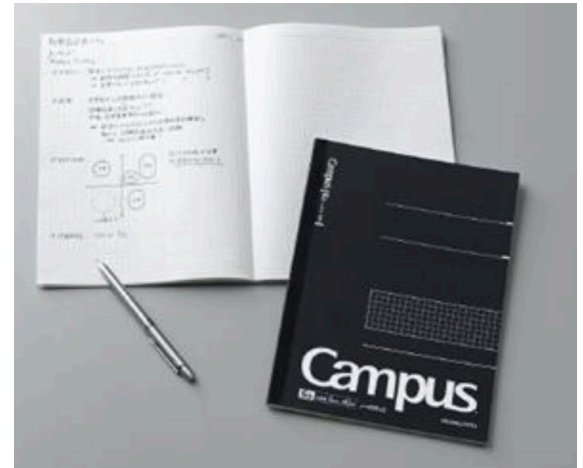
In this course students will develop mathematical skills that apply to common business activities, operations and transactions. The topics include whole numbers, fractions, decimals, percentages, ratios, proportions, rounding, estimation and metric measurement. Business applications such as money records, wages and pay rates, job benefits, commissions, budgeting, and home and transportation costs are studied. This is a one-semester course.

The textbook for this course is *Business Math*.

STUDENT EXPECTATIONS & CLASSROOM POLICIES

1. You need to bring the following materials to class:

- ☐ Pencils
- ☐ Eraser
- ☐ Notebook
- ☐ Ruler
- ☐ Scientific calculator - **Recommended calculator: Casio Scientific Calculator fx-375ES**



2. **Class Materials.** At the beginning of the school year, you will be issued a textbook. If this textbook is not returned in a clean, neat, and usable condition by the required date, your family will be asked to pay for a replacement. There are also printable materials that Mr. Kilty will distribute. You can keep all printed materials in your personal storage drawer.

3. **Daily work.** On most class days, you will have problems to work on which will be considered daily work. You can keep all of your materials in your personal storage drawer. Mr. Kilty will record the grade on Quickschools once you have completed the assignment.

4. **Quizzes.** In principle, quizzes will be given at the end of every week.

5. **Projects.** Generally, projects are assignments which are larger in scope and assess learning over multiple lessons. You can expect to have 2~4 projects per semester. Details for each project will be provided in class and posted on Google Classroom.

6. **Incomplete Work.** Any unsubmitted assignment will receive a zero in Quickschools. The mark will be changed upon submission of the assignment. WIN time is available after school if you need extra time to complete an assignment. All chapter assignments should be completed prior to the chapter test. In the case of excessive tardiness (more than two weeks), a late penalty may be factored into the grading of the assignment.

7. **Food.** No food is allowed in the classroom. Students are permitted to bring closed containers of water or unsweetened, non-caffeinated tea to the classroom.



EARNING YOUR GRADE

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

Grade Category	Percentage of your grade
Quiz	20%
Daily Work	30%
Project	30%
Test	20%

Letter grade	Mark range
A+	98-100
A	93-97
B+	90-92
B	85-89
C+	82-84
C	77-81
D+	74-76
D	70-73
F	69 or below

IMPORTANT DATES

Below are the *tentative* test dates.

There will be a chapter test roughly every 4 weeks.

The exact test dates are subject to change.

Please check [Google Classroom](#) for all course information including updated test dates.

Assessment	Date
Unit 1 – Money Records	September 4
Unit 2 – Gross and Average Pay	September 25
Unit 3 – Regular and Overtime Pay	October 20
Unit 4 - Net Pay, Benefits, and Commissions	November 3
Unit 5 – Budgeting and Buying	December 4
Unit 6 – Home and Transportation Costs	January 15

Tokyo International Progressive School

Grade G12 Prealgebra 2026-2027

Mr. Steven Kilty, Room 25

Contact: skilty@tokyoips.com

DESCRIPTION OF COURSE

This course provides an introduction to algebraic expressions and integers, decimals, factors, exponents, fractions, ratios and percents. Additionally, there will be an exploration of equation solving, inequalities, linear functions, graphing, spatial thinking, data analysis, probability, and nonlinear functions. The course is designed to introduce algebraic thinking skills and to connect the concepts to arithmetic skills that students already know.

STUDENT EXPECTATIONS & CLASSROOM POLICIES

1. You need to bring the following materials to class:

- ☐ Pencils
- ☐ Eraser
- ☐ Ruler
- ☐ Scientific calculator - **Recommended calculator: Casio Scientific Calculator fx-375ES**

2. **Class Materials.** There is no textbook for this course. Mr. Kilty will distribute materials for you to work from.

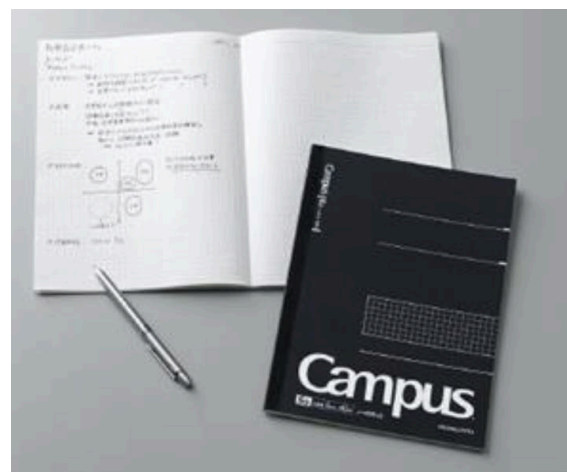
3. **Daily work.** On most class days, you will have problems to work on which will be considered daily work. You can keep all of your materials in your personal storage drawer. Mr. Kilty will record the grade on Quickschools once you have completed the assignment.

4. **Quizzes.** In principle, quizzes will be given at the end of every week.

5. **Projects.** Generally, projects are assignments which are larger in scope and assess learning over multiple lessons. You can expect to have 2~4 projects per semester. Details for each project will be provided in class and posted on Google Classroom.

6. **Incomplete Work.** Any unsubmitted assignment will receive a zero in Quickschools. The mark will be changed upon submission of the assignment. WIN time is available after school if you need extra time to complete an assignment. All chapter assignments should be completed prior to the chapter test. In the case of excessive tardiness (more than two weeks), a late penalty may be factored into the grading of the assignment.

7. **Food.** No food is allowed in the classroom. Students are permitted to bring closed containers of water or unsweetened, non-caffeinated tea to the classroom.



EARNING YOUR GRADE

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

Grade Category	Percentage of your grade
Quiz	20%
Daily Work	30%
Project	30%
Test	20%

Letter grade	Mark range
A+	98-100
A	93-97
B+	90-92
B	85-89
C+	82-84
C	77-81
D+	74-76
D	70-73
F	69 or below

IMPORTANT DATES

Below are the *tentative* test dates.

There will be a chapter test roughly every 3 weeks.

The exact test dates are subject to change.

Please check [Google Classroom](#) for all course information including updated test dates.

Assessment	Date
Unit 1 – Algebraic Expressions and Integers	September 4
Unit 2 – Solving One-Step Equations and Inequalities	September 25
Unit 3 – Decimals and Equations	October 20
Unit 4 - Factors, Fractions, and Exponents	November 3
Unit 5 – Operations with Fractions	November 27
Unit 6 – Ratios, Proportions, Percents	December 16
Unit 7 – Solving Equations and Inequalities	January 22
Unit 8 – Linear Functions and Graphing	February 12
Unit 9 – Spatial Thinking (Geometry, circles, transformations)	March 9
Unit 10 – Area and Volume	April 2
Unit 11 – Right Angles in Algebra	April 30
Unit 12 – Data and Analysis and Probability	May 21
Unit 13 – Nonlinear Functions and Polynomials	June 4

Tokyo International Progressive School

Grade 12 Precalculus Course Outline 2026-2027

Mr. Steven Kilty, Room 25

Contact: skilty@tokyoips.com

DESCRIPTION OF COURSE

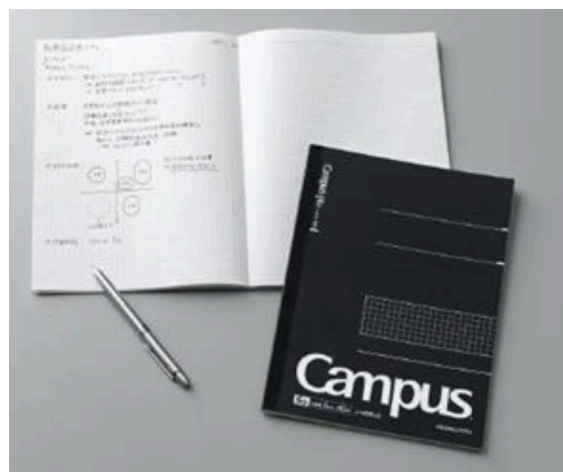
This course provides a detailed examination of algebraic and inverse functions, graphs, exponential and logarithmic functions, conic sections, matrices, determinants, complex numbers, and discrete algebra. Additionally, students will study proofs of trigonometric identities, solutions of right and oblique triangles, solutions of trigonometric equations and functions, vector applications and polar coordinates.

The textbook for this course is *Openstax Precalculus 2e*.

STUDENT EXPECTATIONS & CLASSROOM POLICIES

1. You need to bring the following materials to class:

- ☐ Pencils
- ☐ Eraser
- ☐ Ruler
- ☐ A4 grid-style notebook – ***Use this for both your class notes and your textbook assignments***
- ☐ Textbook
- ☐ TI-84 Plus Graphing Calculator



2. **Textbook.** At the beginning of the school year, you will be issued a textbook. If this textbook is not returned in a clean, neat, and usable condition by the required date, your family will be asked to pay for a replacement.

3. **Daily work.** On most class days, you will be assigned a daily work assignment. This may be a textbook assignment which you can complete in your notebook, or a worksheet which you can complete and keep in your personal storage drawer. You should strive to complete this class assignment before the start of the next class. Mr. Kilty will record the grade on Quickschools once you have completed the assignment.

4. **Quizzes.** In principle, quizzes will be given at the end of every week.

5. **Projects.** Generally, projects are assignments which are larger in scope and assess learning over multiple lessons. You can expect to have 2~4 projects per semester. Details for each project will be provided in class and posted on Google Classroom.

6. **Incomplete Work.** Any unsubmitted assignment will receive a zero in Quickschools. The mark will be changed upon submission of the assignment. WIN time is available after school if you need extra time to complete an assignment. All chapter assignments should be completed prior to the chapter test. In the case of excessive tardiness (more than two weeks), a late penalty may be factored into the grading of the assignment.

7. **Food.** No food is allowed in the classroom. Students are permitted to bring closed containers of water or unsweetened, non-caffeinated tea to the classroom.



EARNING YOUR GRADE

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

Grade Category	Percentage of your grade
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C	77-81
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D	70-73
F	69 or below

IMPORTANT DATES

Below are the *tentative* test dates.

There will be a chapter test roughly every 3~4 weeks.

The exact test dates are subject to change.

Please check [Google Classroom](#) for all course information including updated test dates.

Assessment	Date
Chapter 3 - Polynomial and Rational Functions	September 18
Chapter 4 - Exponential and Logarithmic Functions	October 23
Chapter 5 – Trigonometric Functions	November 20
Chapter 6 – Periodic Functions	December 15
Chapter 7 – Trigonometric Identities and Equations	January 29
Chapter 8 – Further Applications of Trigonometry	February 26
Chapter 9 – Systems of Equations and Inequalities	March 26
Chapter 10 – Analytic Geometry	April 30
Chapter 11 – Sequences, Probability, and Counting Theory	May 28