



6th Grade Mathematics

2021-2022 Course Syllabus

Course Description

In sixth grade math, we will build upon the elements of mathematics learned in elementary school. We will be using an international curriculum, which aligns with the *International Baccalaureate* framework. Our textbook is MYP Mathematics – A Concept-based Approach – Year 2 by Oxford University Press. Although this is a 7th grade book, we will ensure that 6th grade standards and concepts are fully learned while providing more challenging curriculum from this 7th grade book.

Student Learning Outcomes

The mathematics department here at Willows aims to give students a strong foundation so they can be successful in their mathematics career in the Middle Years Program and beyond.

- Develop the skills and knowledge necessary to allow our students to take studies in Mathematics beyond the MYP.
- Develop confidence, perseverance and independence in Mathematical thinking and problem solving.
- Give students the opportunity to communicate confidently and clearly in a variety of contexts.
- Demonstrate and explore the contribution of Mathematics in other areas.
- Encourage students to reflect critically and constructively on their work and the work of others.

In addition to learning the content, students will work on developing all the IB learner profile traits:

Principled
Knowledgeable
Reflective

Inquirers
Open-minded
Thinkers

Communicators
Caring

Risk-takers
Balanced



Major Units of Study

<p>Unit 1 - Ratios & Proportions Global Context: Identities & Relationships Related Concepts: Equivalence, Quantity & Simplification Common Core: 6.RP.A.1 Items Covered: - Ratios - Proportions</p>	<p>Unit 2 - Probability Global Context: Personal & Cultural Expressions Related Concepts: Representation, Systems & Justification Common Core: 6.SP.A.1 - 2 Items Covered: - Events/Outcomes - Sample Space - Calculating Probability - Complimentary Events - Experimental Probability - Simulated Event</p>
<p>Unit 3 - Integers Global Context: Orientation in Space & Time Related Concepts: Quantity & Representation Common Core: 6.NS.C.5 - 8 Items Covered: - Opposites - Absolute Value - Coordinate Grid - Operations</p>	<p>Unit 4 - Algebraic Expressions & Equations Global Context: Scientific & Technical Innovation Related Concepts: Simplification & Equivalence Common Core: 6.EE.A.1 - 9 Items Covered: - Simplifying & Writing Expressions - Equations & Inequalities - Solving/Writing</p>
<p>Unit 5 - 2D and 3D Geometry Global Context: Orientation in Space & Time Related Concepts: Generalization & Measurement Common Core: 6.G.A.1 - 4 Items Covered: - Trapezoid - Regular Polygon - 3D Figures - Volume of Prisms</p>	<p>Unit 6 - Rates Global Context: Globalization & Sustainability Related Concepts: Equivalence & Measurement Common Core: 6.RP.A.2 - 3, Items Covered: - Converting Measurements/Currency - Unit Rates - Problem Solving - Rate of Change</p>
<p>Unit 7 - Statistics Global Context: Fairness & Development Related Concepts: Representation & Justification Common Core: 6.SP.A.3 - 5 Items Covered: - Stem/Leaf Plot - Mode/Median/Mean - Outliers - Range - Quartile/ Box and Whisker Plots</p>	

As you can see, there are seven units of study over the course of the year. Units typically last several weeks and end with a summative assessment to evaluate student knowledge and understanding.

Homework

Students should expect to receive approximately 10-15 minutes of math homework each night. However, this may vary from day to day, and between different students. We will also be completing projects during the year, which may entail more time.

Assessment

For a detailed description of our Assessment Policies, please see our Assessment Policy Handbook on our website. Students will be assessed on both formative and summative tasks. Formative assessments are smaller tasks and assessments that gauge learning (homework, participation, quizzes). Summative assessments are larger tasks and assessments that require more in-depth and comprehensive knowledge (tests, projects).

Formative Tasks (20% of semester grade):

Formative tasks are given scores between 0 and 8 as described in the table below.

Score	Description
0	The assignment was not submitted on time and the deadline has passed for submission.
1-2	The assignment lacked the basic standard of completion and/or timeliness of submission. The assignment may be missing core elements of the assignment.
3-4	This assignment lacked the expected standard of completion and/or was late without excusal.
5-6	The assignment was either partially completed or late with excusal.
7-8	The assignment met or exceeded the expected standard of completion and was handed in on time.

Summative Tasks (80% of semester grade):

There are four IB MYP Criterion (Criterion A, B, C and D) that assess a student's growth in different areas. Summative tasks are scored using the IB scale of 0-8 as described below.

IB MYP Criterion	Objectives
(A) Knowing and Understanding	Ability to solve problems correctly and demonstrate proper use of mathematics
(B) Investigating Pattern	Ability to recognize and describe patterns in general terms
(C) Communicating	Using proper written and oral vocabulary and mathematical symbols to communicate thoughts and ideas.
(D) Applications of Math in Real-Life Situations	Identifying and selecting appropriate information from a real-life problem and applying proper mathematical approach to arrive at a solution

IB MYP Criterion Achievement Levels	Criterion A, B, C, D
0	Does not meet standard
1-2	Limited understanding or attempt
3-4	Satisfactory, occasionally meets standard
5-6	Substantial, considerable achievement of standard
7-8	Excellent, consistently achieves above standard

Submission Guidelines

*Guidelines are subject to change. These are general course guidelines, and it should be noted that I may alter or add additional, more specific requirements to any formative or summative assignment throughout the year.

Submissions

- All work is to be submitted in Managebac; I do not accept submissions anywhere else.
- Submissions must be readable to be accepted.
- Submissions must be named with student name and the name of assignment/submission.
 - Example: Jane Smith_unit 3_page 33_#1-10

Late Work

- All work is required to be turned in on the assigned due date.
- A deduction of 20% per school day will occur for formative work that is turned in late.
- All formative assignments will receive a zero after 1 week past the assigned due date.
- Please see me if you have extenuating circumstances and would like reconsideration.

Submitting Late Work

- You **MUST** notify me through my school e-mail when you have submitted late work because Managebac does not do so.
- You must put **LATE WORK** in the subject line.
- Your e-mail must include: your class assignment (6A,etc), the title of the assignment, and the assigned due date.

Absences

With an excused absence, all projects, tests, quizzes, homework, and classwork can be made up, within a reasonable timeline to be determined by the teacher, to receive full credit. Because not all aspects of classroom participation can be made up, your participation grade may be affected by frequent or extended absences, even when the absences are excused.

Students with an unexcused absence may have the opportunity to make up missing work, at the teacher's discretion. Work may be counted as late and only receive up to 50% credit.

If you know you will miss class, please notify me through my school e-mail. It is your responsibility to ask about and complete any work that you have missed. Please ask for help if you are uncertain about the concepts or need assistance.

Materials

Students will be expected to bring the following to class daily. Any student that does not bring their materials will have points taken from their participation score.

- A spiral notebook, (Graph paper preferred, but not required.)
- A pencil-case equipped with a pencil, eraser, blue or black pen, highlighter, red pen for correcting work, small ruler, and correction tape.
- A geometry kit during our geometry units. The kit must include a ruler, set squares (right-angled triangular plate for drawing lines, especially at 90°, 45°, 60°, or 30°.), protractor, and compass.
- TI 30 IIS Scientific Calculator
- A charged laptop.

Student Conduct

In order to maintain a safe and enjoyable time at school, students are expected to behave in a responsible manner. Violations of student conduct expectations may result in disciplinary measures, which are explained later in this document. The following are expectations of all WPS students:

- Demonstrate courteous and respectful behavior at all times, including the use of school equipment/property and other people's belongings
 - Follow staff instructions promptly
 - Arrive to class fully equipped, ready to engage and in a timely manner
 - Keep up to date with academic submissions and timelines
 - Discuss your academic needs with your classroom teachers
 - Walk in shared spaces and speak at a respectful volume while others are working and learning
 - Conduct themselves with a sense of decorum
- * When applicable, follow all guidelines outlined in the COVID-19 Handbook.

Zero Tolerance Policies

Willows Preparatory School has zero tolerance for alcohol, drugs, tobacco, weapons, age-inappropriate material, graffiti, and repeated instances of bullying behavior. If any students are found in possession of or engaging in any related activities of the above, whether on campus and/or during school hours, appropriate referrals will be made, and consequences/outcomes will be documented on the student's file.

Consequences

Any student misconduct will be documented and may result in the following:

- A referral to Head of School or Assistant Head of School
- Support services through Counselor referral
- Meeting with parent, teacher, and administration
- Probation from extracurricular activities or other privileges (i.e., sport, clubs, lunch outside)
- Restricted use of facilities

Misconduct issues of a more serious nature, such as those related to zero tolerance policies include:

- Suspension – You are expected to keep up with your schoolwork during this time, as no allowances will be made in this regard.
- Expulsion – You are permanently disenrolled from Willows Preparatory School

Technology

Every student at WPS has their own Microsoft Surface. WPS's official Laptop/Technology Policy is found at the end of this document.

Teacher-Student E-mail Communication

You have the opportunity to reach out to teachers and staff using email; however, when applicable, face-to-face communication is preferred. Student email addresses should only be used for communication about academic issues or to ask questions in a respectful and professional manner. Students are expected to check email on a daily basis. If a student receives an email or message from another student that is confusing or inappropriate, please notify a teacher or staff member immediately. Willows Preparatory School reserves the right to access all WPS student emails, reset all passwords, and if necessary, suspend all email activity.

Cell Phones and Smart Devices

We understand that cell phones and other smart devices are an essential part of daily life. Smart watches while linked to cell phones are considered cell phones. Please make sure that the watches are on Do Not Disturb mode during the school day. Students are permitted to bring cell phones to school each day subject to the following conditions:

- Cell phones should remain OFF when students are present on the school campus. Cell phones must be stored in book bags during the school day or in student lockers.
- Students may use their cell phones to contact parents upon request. All authorized cell phone use must occur at the Front Desk in the main building and/or under the supervision of an administrator or teacher.

If a member of staff can see or hear a cell phone, the phone will be confiscated and turned over to the front desk. Confiscated phones will be returned at the end of that school day from the front desk after a parent is notified about the violation of this policy. All incidents are documented and recorded—repeat violations may result in additional consequences.

In case of a personal emergency on campus (illness, personal situation, etc.) the student's first line of contact is a staff member. In family emergency situations, parents should contact the front office if they need to reach a student.

Classroom Computer Use

Laptops will be used regularly in class for lessons, notes, and activities. Students should not be checking emails, grades, chatting via Teams, or any other activities on their computer unless the teacher has given them permission. If a student is found not using a computer appropriately, the computer will be taken away until the end of class and the following will take place:

- 1st Time: A warning from administration.
- 2nd Time: An email sent home to parents.
- 3rd Timer: Meet with administration and discuss possible repercussions.

WPS Students will no longer be allowed to use headphones for personal use in any place of the school building unless a) the headphones are being used for specific class content (i.e., sound editing a video for a project); or b) they are being used before or after school hours (8:30am-3:30pm). Students should not have Spotify or any other streaming music program on their school computers.

Academic Integrity

There is a zero-tolerance policy for academic dishonesty, plagiarism, and cheating of any kind. Parents will be notified immediately, and the student will receive a zero for the assignment.

Contact Information

Please feel free to email me any comments, questions, or concerns. I will generally get back to you within one business day. Please note... I will not respond after 9:00 pm or on weekends (unless truly urgent). You can also contact me through our front office at info@willowsprep.com.

My email address is: gdineen@willowsprep.com

We have read and do understand the above syllabus for the 6th Grade Math class.

*Please return this signed **page** by September 10, 2021*

Student Name (Print) _____

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____