



7th Grade Mathematics

Willows Preparatory School 2020-2021

Subject Aims

- Develop confidence, perseverance and independence in Mathematical thinking and problem solving.
- Communicate confidently and clearly in a variety of contexts.
- Appreciate the contribution of Mathematics in other areas.
- Reflect critically and constructively on your work and the work of others.
- Nurture the skills and knowledge required for students to take their studies in Mathematics beyond the MYP

Keys to Class

- Students will apply their mathematical knowledge, skills, and abilities to solve complex problems.
- Students will identify patterns using their tools of mathematical inquiry.
- Students will learn about the nature of mathematics and apply it to other disciplines.
- Students will learn both how to solve problems and justify their solutions.

I.B. Grading Criteria

Objective A: Knowing and Understanding	Do we have access to a selection methods, processes and techniques? Can we apply them to challenging and unfamiliar problems?
Objective B: Investigating Patterns	Can we generalize patterns and investigate their properties?
Objective C: Communicating	Can we link together the different forms of Maths to produce accurate, coherent solutions?
Objective D: Apply Mathematics in Context	How do we identify what is relevant? Can we justify our answers and reflect on the accuracy of our solutions?

Content Brief

Semester 1	Semester 2
1) Linear Equations	6) Properties of Triangles
2) Exponents and Polynomials	7) Area, Surface Area, and Volume
3) Factoring Polynomials	8) Applying Algebra to Geometry
4) Linear Functions and Systems of Equations	9) Probability and Statistics
5) Quadratic Functions	