



Willows Preparatory School 2020-21

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

- **OneNote** – We use OneNote to distribute course assignments, readings, links, and reflections. We also use OneNote as means of collaboration and project work.
- **Homework** – Our homework assignments revolve primarily around guiding students through the course material using a combination of applied contexts and practice drills. On average, students should be spending anywhere between 40 minutes to an hour on Math homework a week. This may fluctuate depending on projects taking place in class
- **Collaborative learning environment** – Students are encouraged to engage the class and one another in discussion of principles and their implications

I.B. Grading Criteria

Objective A: Knowing and Understanding	Do we have access to a selection of 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
Functions Transformations Inverses Polynomials Rational Functions Exponentials Logarithms	Trigonometry Functions Inverse Trigonometry Trig identities Trig equations Trig applications Vectors