

Annual Plan for 2020 : Maths

- We will nurture children to see themselves as mathematicians
- Through professional development teachers will demonstrate an improved ability to deliver a relevant, structured, connected maths program
- The school community of students, parents, teacher aides and teachers will be involved in helping to develop their mathematical skills
- To create video examples of maths strategies for parents to refer to when necessary
- Whanau will feel more confident and comfortable when supporting their children in maths
- Student achievement in maths will improve

Rationale Historically Maths at MNS has always been at 85+% of students working within the expected curriculum level (when averaged as a whole school). We are now moving to cohort tracking and setting more specific targets for each year level. We are reviewing our MNS Expectations in line with the curriculum and understand the importance of the two year curriculum level cycles.

In some academic years we have a large movement of students due to the film industry, state housing needs, overseas contracts and the housing market in Miramar. When setting targets and monitoring cohorts it is important that we take into account that the data collected from one year to the next may not always represent the same students. This is why we, as a school, put a strong emphasis on knowing our individual students, setting support, targeted and extension groups. We are focussing on cohort assessments and target setting so we can identify areas in need of support and strengths within the school community.

During 2019 the staff received some maths development based around the components of maths sessions, ideas and resources for improving the connections, enjoyment of maths and levelled investigations. Staff were also reminded of, or introduced to, the strategy and strand posters to assist with levelling and coverage. This year we need to upskill new members of staff and support those who have changed year groups. We need to revisit our use of investigations, real life links and the fundamental foundations of number. New maths resources have been purchased and are being trialed in areas of the school.

Current Year Group	Percentage of students achieving Working Within or higher EOY 2019	Target for students achieving Working Within or higher EOY 2020		Current Year Group	Percentage of students achieving Working Within or higher EOY 2019 (to assist with tracking)
2	92	92		1	Data collected but not reported on till year 2.
4	77	80		3	74
6	93	93		5	73

Curriculum Area	Who is responsible?	Supporting Documents	Resources
Mathematics	Teachers Syndicate Leaders Maths Leader (Michelle)	MNS 2018-2020 Strategic Plan Strategic Goals Maths Priorities Target student documents	

	Objectives	Strategies and Actions ONGOING:	Expected outcomes By the end of the year ...	Evaluation
Through professional development teachers will demonstrate an improved ability to deliver a relevant, connected maths program	<p><i>Professional learning equips teachers with the tools they need to be 'confident, connected, active life-long learners' themselves and to support students to be that way as well.</i></p> <p><i>To promote consistency across syndicates and the school in the content, structure and delivery of maths (both in discrete sessions and through our inquiry focus)</i></p>	<p>Teachers participate in professional learning opportunities including staff meeting sessions, TOD training and peer conversations.</p> <p>Teachers to be provided with opportunities to work alongside and observe other members of staff engaging in teaching maths.</p> <p>Professional development is focused on sharing and building collaboration across all staff.</p> <p>Michelle will deliver PD sessions with a focus on</p> <ul style="list-style-type: none"> • Making video tutorials by the children for other students and their parents • Understanding of both the numeracy stages and the curriculum levels • Linking maths to real life contexts • Using talk moves to help build connections • Incorporating problem solving, rich learning tasks and investigations 	<p>Teachers will be more confident when delivering maths sessions within their classroom programmes.</p> <p>Staff will be engaged in regular discussion about their maths program, students and effective activities / approaches.</p> <p>Staff will have received professional development</p> <p>Staff will have a better understanding of the numeracy stages and curriculum levels.</p> <p>Students will be engaged in a range of maths activities throughout each week.</p> <p>Students and staff will be using the talk moves to discuss their maths learning.</p> <p>Student's ability to use and apply their maths knowledge in a range of</p>	

			situations will have increased.	
	Objectives	Strategies and Actions ONGOING:	Expected outcomes By the end of the year ...	Evaluation
<p><i>Learning and teaching</i></p> <p>To nurture children to see themselves as mathematicians</p> <p>Student achievement in maths will improve</p> <p>Attitudes towards maths will be positive</p>	<p><i>MNS students will see themselves as mathematicians</i></p> <p><i>Student's learning will be accelerated</i></p> <p><i>Students will be actively engaged in a variety of maths sessions</i></p> <p><i>Classrooms will reflect the maths journey</i></p>	<p>Teachers will provide learning opportunities that enable students to develop and use their maths skills / knowledge in a variety of contexts</p> <p>Staff from Year 2 upwards will incorporate Mathematics into their classroom practice to enhance and reinforce maths skills, strategies and knowledge</p> <p>Staff will identify gaps in their student's knowledge using a range of assessment tools and plan sessions to address these</p> <p>Staff will celebrate student's achievements and share knowledge at three way conferences, through Seesaw and in classroom displays.</p> <p>Classroom displays will reflect the Maths Learning Journey of the class so they can see what they have achieved and use it as reference when necessary</p>	<p>Students will be actively involved in their maths learning</p> <p>Students will be engaged in weekly investigation based tasks</p> <p>Students will be able to talk about their maths and how it links to everyday life</p> <p>Mathletics will be used on a regular basis both within classroom programs and as part of homework</p> <p>Target students will have accelerated their learning</p> <p>Students will be able to talk about their journey in maths and refer to examples</p>	
	Objectives	Strategies and Actions ONGOING:	Expected outcomes By the end of the year ...	Evaluation

<p><i>Beyond the classroom</i></p> <p>The school community of students, parents and teachers will be involved in helping to develop their mathematical skills</p>	<p><i>To strengthen home-school partnerships using Mathletics , publications on seesaw and video clips.</i></p> <p><i>To create student demonstration videos that can be accessed through our school website</i></p> <p><i>To liaise with our communities about their needs when supporting their children in maths</i></p>	<p>Increase the community's understanding of how mathletics is used to support our maths program.</p> <p>Use Seesaw to increase the level of engagement of family and whānau in their child's maths learning</p> <p>We will offer maths information evenings for parents to better understand what maths is taught and how at each level</p> <p>We will run information meetings about mathletics and for parents / whanau</p>	<p>MNS families will have more understanding about how maths is developed through a range of activities</p> <p>Parents will have been informed about how mathletics is used to enhance our maths program</p> <p>Parents will have a better understanding of what maths looks like in the classroom at the different syndicate levels and be better able to support at home</p> <p>Parents will have a resource that can refer to or discuss with their child to better their understanding of how maths is taught today</p>	
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