Mathletics Teacher Certification Level 2 Tips for Success

Mathletics

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I use Mathletics to develop my students as learners and ensure maximum individual results		
Student Engagement Outcomes		
Each of my students has their own targeted learning pathway		
Indicators		Tips for Success
I2.1	My students' engagement is maintained with regular recognition of achievements eg presentation of certificates, special trophies, class parties	Incorporate Mathletics results as a percentage of students' overall class mark
		Let students know that tests earn them double points
		Acknowledge students on the Hall of Fame through school announcements, school or class twitter feeds or other social media
		Arrange class into teams and tally weekly results in visual charts. Allow students to take responsibility to record and track data
I2.2	My students use Mathletics to find the information they need to answer a question eg using Support and Maths A-Z	Encourage student inquiry to deepen their concept knowledge
		Have students build a mathematics word wall in your classroom with related terms in Maths A-Z
		Develop students' initiative-taking skills by encouraging appropriate tool selection to solve a question or problem
		In ability groups, review how Something Easier supports progress into core activities
I2.3	My students can identify activities from their core curriculum and Something Easier activities to direct their learning	Raise student awareness of their mastery progress and put students in control of their learning
		Direct students to access Something Easier activities if they don't achieve a gold bar for the Are You Ready?
		Remind students to repeat an activity three times to ensure consolidation of concepts and improved understanding
I2.4	My students use their curriculum results to reflect on their learning and what they need to do to progress	Remind students to check My Progress and improve results from red and orange to green
		Encourage students to reflect on their progress after each activity. Progress can be improved by identifying incorrect/correct answers
		Acknowledge students who have achieved mastery, having repeated activities more than once
		Remind students to select "Try again" to improve their results and consolidate their learning
I2.5	I use Live Mathletics to model and teach number strategies to my class	Plan class or group activities using Live Mathletics in Student View
		Encourage students to strive for Human Calculator status at each level in Live Mathletics
		Play Live Mathletics with the whole class. At the end, review the questions and discuss which calculation strategy to use for each one

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Teaching Outcomes		
I use a range of Mathletics resources and strategies to develop independent learners		
Indicators		Tips for Success
I2.6	I regularly create, edit and adjust groups in my class to cater for the changing needs of individual learners	Create ability groups in the class
		Group students by ability and assign them an appropriate course
		Adjust Live Mathletics levels to meet the individual fluency needs of students
I2.7	I integrate eBooks/rich tasks/ interactives in my lesson to teach mathematical concepts and problem solving strategies	Facilitate a rich task in whole class or small group instruction as a hook before starting a new concept, or at the end of a lesson for consolidation
		Ask students to complete an eBook activity before moving onto Mathletics curriculum activities
		Use an interactive whiteboard to explore individual concepts within eBooks or illustrate them by manipulating the interactives
		Print single pages or entire eBooks to introduce or reinforce learning
I2.8	I use Assign, Results and Reports to provide feedback to my students	Let students know you can see their results and the number of attempts
		Use the individual student reports as an opportunity to open goal-setting dialogue with your students
		Use student results as a source of assessment when writing report cards
I2.9	I regularly use Assign to set support and core curriculum activities for individuals and groups in my class	Set activities for your students to provide an in-class focus and support your lesson
		Be mindful when setting activities not to overload your students. For best results set less activities more frequently or use the calendar to schedule activities
		Improve class results by resetting activities to move students towards mastery
I2.10	I use the Course area to provide personal learning pathways for my students	Show/Hide strands that have not been taught yet to focus student learning
		Modify Course content to suit to individual or group requirements
I2.11	I use Mathletics to develop different mathematical skills eg problem solving, mental and written calculation strategies, fact recall	Use curriculum word problems to model problem solving strategies
		Select appropriate activities from eBooks, curriculum activities, Multiverse and Live Mathletics and use the examples to create discussions about efficient numeracy strategies
I2.12	I use Mathletics with a range of teaching and learning strategies eg group work, whole class teaching, peer teaching, collaborative learning	Provide strategies such as reflection journals, thinking journals and jigsaw or group work approaches
		Complete a curriculum activity together as a model for your class then set the same activity using Assign so that it comes up automatically for them to complete independently
		Use eBooks for group work activities and problem-solving
		Integrate Mathletics into peer teaching through mathematics groups in a class or a homework club.
		Use Support as an explicit teaching aid (using easy, medium and hard examples)
I2.13	I use the pre-made Lesson Plans to introduce, explore and reinforce new concepts	Integrate Mathletics lesson plans into your unit plans
		Pre-prepare lessons using a range of curriculum activities, videos and interactives that help to cater for all learning styles

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Assessment Outcomes		
I use Mathletics results to inform my teaching both formatively and summatively		
Indicators		**Tips for Success**
I2.14	I use Assign, Results and Reports to identify whole class, group or individual strengths and weaknesses and use this data to inform my mathematics planning	Reflect on student results and reports early to help target and support learning
		Use Assign to set topic tests at the beginning and end of each unit to diagnose knowledge gaps and show progress
		Refer to Live Mathletics results to set minimum levels in Live
I2.15	I adjust Mathletics courses, Live Mathletics levels and class groupings, based on data from Results and Reports for individuals, groups and classes	Create targeted courses based on results for individual student learning pathways
		Set minimum levels in Live Mathletics throughout the school term and then remove them during the school holidays
		Show or hide topics in your Course to control the pace of delivery and ensure your students focus on the key concepts you are teaching
		Set regular reminders to review courses, ability groups and Live Mathletics levels based on results and reports
		Reveal new topics just prior to teaching. Leave topics taught visible for revision
		Match activities to your scope and sequence when developing custom courses
I2.16	I use Reports to export and use results as part of my overall assessment of students	Save exported results at both mid-year and end of year. Reporting can reflect student improvement
		Download and print individual student reports to add to student records
		Share your printed Mathletics student reports at parent or school meetings
I2.17	I use Tests and course topic tests for diagnostic, formative and summative assessment	Identify student strengths and weaknesses by setting the Are You Ready? and topic tests relevant to your teaching program
		Assess students' prior learning and progress by assigning Tests at the beginning, mid and end of year
		Use Assign to schedule topic tests at the end of each unit to diagnose knowledge gaps and inform planning
My Community		
I use Mathletics to build a school community of mathematics learning		
Indicators		**Tips for Success**
I2.18	I share my Mathletics learnings with colleagues	Share best practice or video tutorials with colleagues to make the most of tools available to support mathematics learning
		Encourage colleagues to participate in Mathletics Teacher Certification
I2.19	I share my experience in integrating Mathletics in the community	Share your experience with another school in your district or with district contacts to demonstrate blended learning using Mathletics