



Teacher Training Handbook



Explore
Teaching Tools



Understand
the Benefits



Implement
in your Classroom

Using this handbook



Finding your way around

These sections focus on navigation and functionality.



Understanding the benefits

These areas explain how the feature could be used and the outcomes you can expect.



Ideas for the classroom

As you use the handbook, you will see classroom implementation suggestions marked with these symbols.

These symbols also refer to the Mathletics Certification Pathway. This Pathway is a framework for you to guide your own exploration of Mathletics. To keep track of your progress, use the checklist in the Appendix. Once you've completed Certification Level 1 or 2, visit www.mathletics.com/certification and click the My Certification button. When you submit your completed certification online we will send you a certificate for your CPD record.



Helpful Tips

These hints will help you find the quickest solution if you get stuck.



Mathletics Teacher App

Indicates that a feature is available on the teacher app for selected smartphones.



Mathletics Student App

Indicates that a feature is enabled in the student app for tablet devices.

Using your Teacher Centre



Going back a page

Navigate backwards in your Teacher Centre. Using your browser back button will log you out!



Exporting data

Export the information displayed on the page you are looking at into Excel format.



Printing data

Print the information displayed on screen when you see this icon.



Getting help

Follow this link to visit the Training and Support Portal.

Download user guides, watch video tutorials and sign up to webinars. To access this area directly from your web browser, visit www.3plearning.com/training. For free one to one telephone training and support contact our Customer Support team.

Getting in touch

Tailored Product Support

Contact our friendly Customer Support Team

t: 0117 370 1990

e: support@3plearning.co.uk

Technical Support

Our team of technical experts will work with you to resolve any technical issues you experience.

t: 0117 370 1987

e: techsupport@3plearning.co.uk



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2	Navigating the Student Centre	Includes how to earn a certificate
3	Navigating the Teacher Centre	Includes printing certificates and sign in cards
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5	Courses	Set and create curriculum courses
6	Results	View results and set tasks Set minimum levels in Live Mathletics
8	Reports	Monitor progress and engagement
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10	Lessons	Search for and build a sequence of resources
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GET STARTED WITH YOUR CLASS

To prepare for your first lesson, print off student sign in cards through your Teacher Centre. Introduce Mathletics by signing into your Teacher Centre on the interactive whiteboard or digital projector.

1. The Face Maker
Personalise your environment

2. Live Mathletics
Improve mental maths

3. Concept Search
Explore key vocabulary

4. Mathletics Curriculum
Master key concepts

5. Rewards
Recognise achievement



Demonstrate: When students sign in for the first time they create their Mathletics avatar. Have fun with the class creating your teacher Mathlete.

Explain: 10 credits when they improve on a previous score. They can use these credits to purchase accessories for their Mathlete.

Student Activity: Create their own Mathlete.

Challenge the Class: Ask students to choose a 30 credit item to save up for.

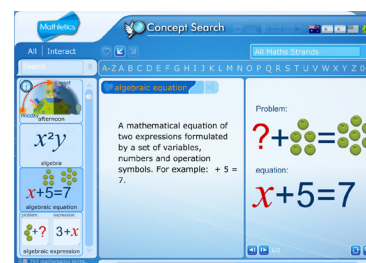


Demonstrate: Play a whole class game of Live Mathletics, ask the students to shout out the answers as you race against the clock.

Explain: 1 point for each correct answer and 10 credits when they improve their score. Points contribute to the weekly certificate and Hall of Fame.

Student Activity: Play a game, starting at Level 1 to get used to the format. They can choose to play live against the world, their own school or the class.

Challenge the Class: Play again, try to improve their score and earn 10 credits.



Demonstrate: Tell the class which topic you'll be focusing on today and discuss some key vocabulary. Ask the class what they already know about this topic.

Explain: Exploring the related terms at the bottom will give them more clues.

Student Activity: In pairs explore the key vocabulary using Concept Search and discuss anything new they find.

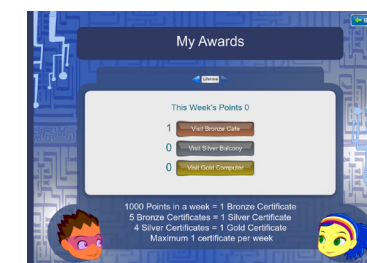


Demonstrate: Choose a topic from the bars in the centre. Warm up by completing the Are You Ready? activity together. Open the next activity and show that they can find help using the question mark in core activities.

Explain: 10 points for each correct answer and 10 credits when they improve their score. A Gold Bar appears if they score 85% or higher.

Student Activity: Complete the Are You Ready and the next activity. At the end use the question mark to see incorrectly answered questions worked through.

Challenge the Class: Achieve 1 Gold Bar by the end of the lesson, repeat the activity if they don't get a Gold Bar on the first attempt.



Demonstrate: Show the class that points they've earned are displayed on the left.

Explain: Certificates are awarded for 1,000 points in a week. A maximum of 1 certificate can be earned per week.

Student Activity: Work out how many points they need for their first certificate.

Challenge the Class: Achieve their first certificate for homework.

NAVIGATING THE STUDENT CENTRE



Live races against other students for improving mental maths

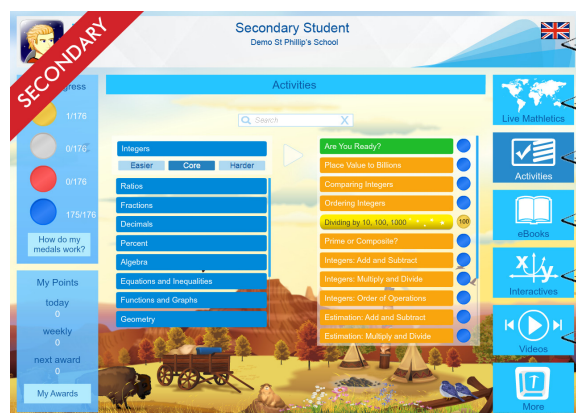
Question sets for building skills in curriculum based concepts

Puzzles for application and reasoning

Interactive maths dictionary for exploring technical vocabulary

Colourful environment for consolidating learning

Fun songs for practising times tables



Live races against other students for improving mental maths

Question sets for building skills in curriculum based concepts

Worksheets for moving from practice to application

Interactive tools for exploring complex concepts

Video tutorials for independent learning

Puzzles for application and reasoning

Mathletics Student for Tablets

Extend the student experience with the supporting app for tablets. Mathletics Student is free for all subscribers. This new addition is still in development, the most used curriculum activities are available right away, with more content added weekly. Use the Update icon to see what's new. For more information visit www.mathletics.com/mobile. This app is available both on and offline.



- Play Live Mathletics
- Complete Curriculum activities
- Explore Concept Search



Get Started

1. Change display preferences using the settings in the top left
2. Click the avatar face to see and spend credits
3. View points and progress summaries on the left hand panel
4. Click My Awards to see certificates
5. Navigate the learning tools using the right hand panel



Progress and Rewards

Students receive a range of rewards that help them understand their progress and motivate them to keep improving.

- **Credits** for improvement: can be spent on Mathlete accessories (10 credits for beating a personal best)
- **Points** for correct answers: contribute to the Hall of Fame and weekly certificate (1 for Live Mathletics, 10 for Curriculum)
- **Gold bars** for mastery: unlock problem solving games



Whole Class Teaching

Teach with student content through the Demonstrations feature.



Celebrate Success

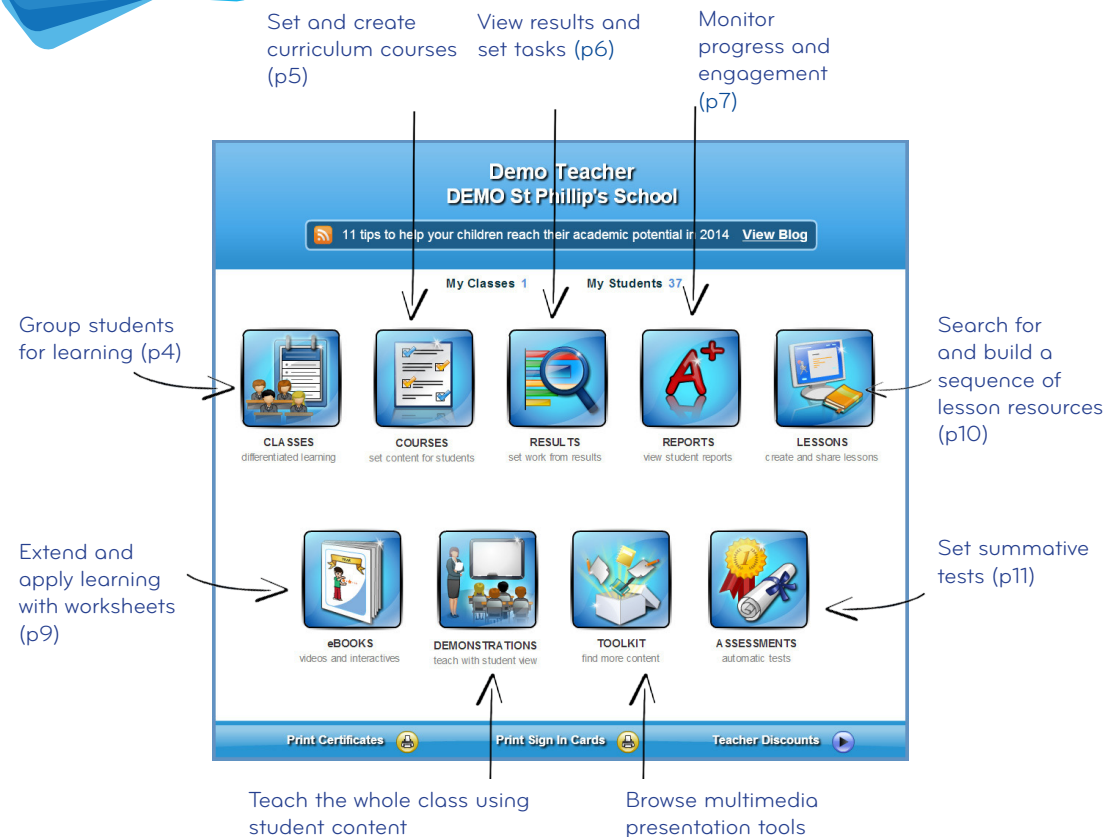
Set a class goal to each earn their first bronze, silver or gold certificate. Link Mathletics rewards to your own in-school reward system.



Promote Independent Learning

Students can guide their own learning using the medals. Set a class target to convert as many attempted activities to gold as possible.

Reward students for incorporating new technical vocabulary in class discussions using Concept Search.



Get Started

1. Print sign in cards or stickers using the link at the bottom of the page
2. Print certificates by type or date range using the link at the bottom of the page
3. Use the icons to access teaching tools
4. Click Need Help? for user guides



Tools to Support Teaching

The Teacher Centre tools support planning, preparing resources, delivering lessons, monitoring outcomes and celebrating student success.

Differentiation: Set regular tasks using Results and minimum levels in Live Mathletics using Reports to maintain interest and support continuous improvement. Create learning groups in Classes using Results and design Courses that respond to specific needs.

Engagement: Using Lessons, Demonstrations, eBooks and the Toolkit provide you access to a range of multimedia to appeal to a variety of learner types.



Enrich Learning

Set a class goal to each earn their first bronze, silver or gold certificate and hold a presentation assembly.

Link Mathletics rewards to your own in-school reward system



Target Individual Needs

Students can guide their own learning using the medals. Set a class target to convert as many attempted activities to gold as possible.

Reward students for incorporating new technical vocabulary in class discussions using Concept Search.

Mathletics Student for Smartphones

You can access Mathletics teacher tools on the move with the Mathletics app for selected mobile devices. Mathletics Teacher is available free to download for all subscribers. For more information visit www.mathletics.com/mobile.



- View classes
- Set courses
- Assign tasks
- View results
- Preview and download

CLASSES: Group Students for Learning

Click this tab to display the advanced functions in the bottom right

Create up to 10 groups per class

Classes differentiate learning

Demo Teacher
DEMO St Phillip's School

Class: **Demo Year 6** View Whole Class

Student	Username/Password	Group	Course	Unassign
1, Year	YA-9798/strap15	Demo Year 6	England Year 6 2013	✗
2, Demo	D26455/daze69	Demo Year 6	England Year 6 2013	✗
2, Nasen	N23465/hello1	Demo Year 6	England Year 6 2013	✗
24, Trainee	T24952/spade71	Demo Year 6	England Year 6 2013	✗
Ashley, Ryan	RA-89825/weed97	Demo Year 6	England Year 6 2013	✗
Award6, Bett	BA-5272/carry83	Demo Year 6	England Year 6 2013	✗
Bamford, Yvonne	YB-8464/down870	Demo Year 6	England Year 6 2013	✗
Berry, Liz	LC77720/curb770	Demo Year 6	England Year 6 2013	✗
Bett 18, Bett 2012	BB-5774/throw43	Demo Year 6	England Year 6 2013	✗
Condon, Carole	CC10046/sniff19	Demo Year 6	England Year 6 2013	✗
Connors, Cullen	CC-48850/hour64	Demo Year 6	England Year 6 2013	✗
Cox, Rachel	RC9049/curve11	Demo Year 6	England Year 6 2013	✗
Davies, Cat	CD70531/blue25	Demo Year 6	England Year 6 2013	✗
Daye, Kim	KD-82555/sand25	Demo Year 6	England Year 6 2013	✗
Eagling, Lisa	LP8525/click25	Demo Year 6	England Year 6 2013	✗
Gibbs, Romilly	RG38478/spoke12	Demo Year 6	England Year 6 2013	✗
Gurau, Florin	FG-4527/hail33	Demo Year 6	England Year 6 2013	✗

Click on a password to edit it

Move students between classes

Drag and drop the students back to the main class before you delete the group



View Classes and Groups in the Mathletics Teacher app

Visit www.mathletics.com/mobile



Get Started

1. Choose your class using the Class filter at the top
2. Click the +New Group tab
3. Name the new group and choose the course you want them to follow then click Add Group (a pop-up will appear)
4. Drag and drop the students you want to group onto the new tab
5. Click the new tab to view the new group
6. Click View Whole Class next to the Class filter to see all of your students



Personalised Learning

Creating groups allows you to assign different courses to students in the same class. This feature helps you to cater for the needs of individual learners.

- Students can't see the name of the group
- Students in groups still contribute to whole class points for the Hall of Fame



Unassigning Students

Using the red cross to unassign a student removes them from the class but not the school. Once a child is unassigned they will not be able to sign into their Student Centre. If a child is moving to another teacher's class, that teacher can add them using the Move Students button in their own Teacher Centre.

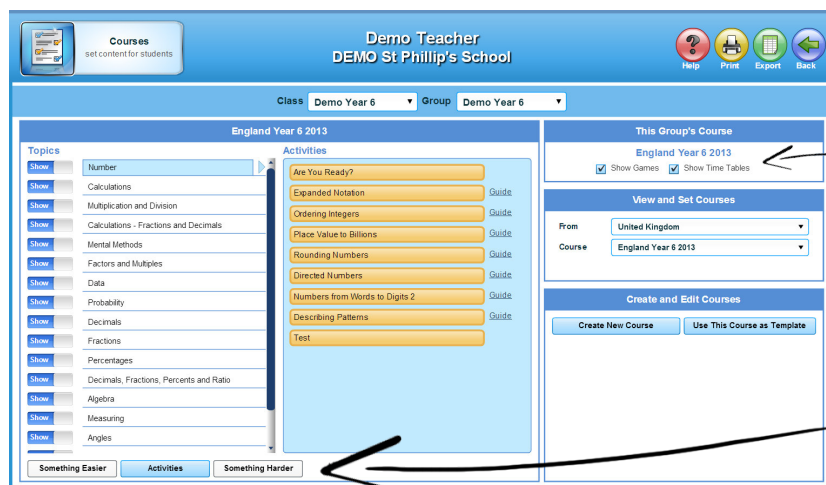


Target Individual Needs

Create mixed ability groups and ask each group to study a topic or concept and teach it to the rest of the class.

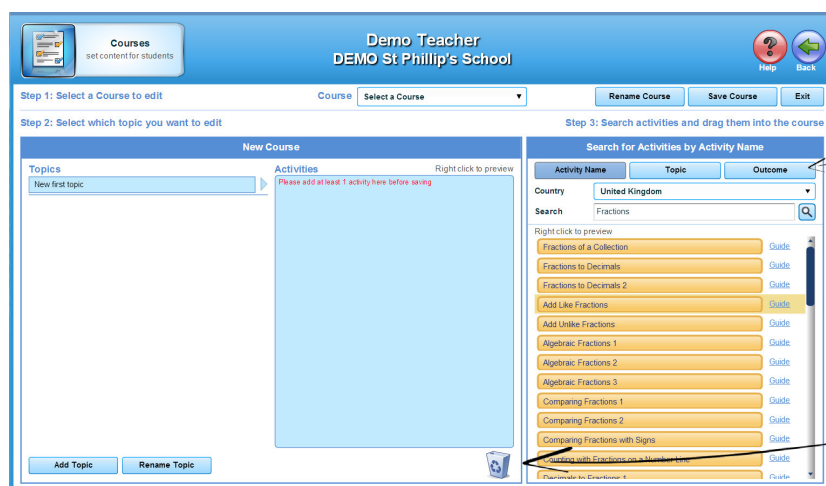
Use groups to assign content to children with specific needs such as EAL, SEN or G&T.

COURSES: Set and Create Curriculum Courses



Change resources available in the Student Centre

View relevant prior learning and extension activities



Search content by activity name, topic or learning outcome

Drag activities from the course to the recycle bin to remove them



Set a Course

1. Choose your class and group using the filters at the top
2. Select the course you want from the View and Set Courses section (the course content will display on screen)
3. Click the topic headers to check the suitability of the activities
4. Right click to preview or download the guide for an activity
5. Click Set Course to save your changes



Design a New Course

1. Click Create New Course or Use this Course as a Template (the course creator screen will appear)
2. Search for activities in the left hand panel
3. Right click to preview the activity
4. Select an existing topic or click Add Topic to create a new one
5. Drag your chosen activity to the Activities box
6. Repeat for further required topics and activities
7. Select a topic and click the Rename Topic button where necessary
8. Click Save Course



Adapt Content

Curriculum content can be adapted to suit the needs of individual learners or groups of learners. Creating courses enables you to ensure all pupils can access Mathletics and experience success.



Target Individual Needs

Create a series of mini courses or revision courses to boost learning in certain topics.

Use groups to assign content to children with specific needs such as EAL, SEN or G&T.



Set Courses in the Mathletics Teacher app

Visit www.mothletics.com/mobile

RESULTS: View Results and Set Tasks

Turn assigned tasks off if you don't want to set them straight away, turn them on to use the Mathletics Teacher app

This icon indicates the Activity is available on the Mathletics Student app

England Year 6 2013	Are You Ready?	Expanded Notation	Ordering Integers	Place Value to Billions	Rounding Numbers	Directed Numbers	Describing Patterns	Number Sequences up to 1 million	Numbers from Words to Digits 3	Test
Action Bar										
Class Average	97	87	92	80	91	92	99	50	90	98
Eagling, Lisa	-	-	-	-	50	-	-	-	-	-
Emmons, Ryan	88	100	80	70	100	90	100	-	-	100
Gibbs, Romilly	-	-	-	-	-	-	-	-	-	-
Gurau, Florin	-	-	-	-	-	-	-	-	-	-
Irvine, Yvonne	-	-	-	-	100	100	-	-	-	-
Jerome, Caprice	-	100	-	-	90	-	-	-	-	-
Kozłowska, Patrycja	100	90	100	100	100	100	100	-	-	-
Loizou, Ely	-	-	-	70	100	-	-	-	-	-
Mackey, Kathleen	-	-	-	-	-	-	-	-	-	-
Mackey, Kathleen	-	-	100	100	-	90	100	-	-	100
McCormack, Bonny	88	100	-	-	-	-	-	-	-	-
Niemczyk, Monika	-	-	-	-	-	-	-	-	-	-
Oakley-Green, Kate	100	100	90	80	100	70	90	-	-	-
Pearson, Samuel	94	100	90	90	100	90	100	50	90	-

View only the results for assigned tasks

See results as they are submitted

Click here to view results or set tasks for supporting activities

Results below 85% are displayed in red

Click here to review results or set tasks for extension activities



Set Results and Assign Tasks in the Mathletics Teacher app



Complete Assigned Tasks in the Mathletics Student app

Visit www.mathletics.com/mobile



Get Started

1. Choose your class using the Class filter at the top
2. The first page will display any test results by topic
3. Click the topic name to see results for the individual activities
4. Use the Action Bar at the top of the mark book to set a task for a group of students
5. Click a single cell to set a task for a single student



Personalised Learning

This area allows you to target areas for improvement for individuals, groups of children and the whole class. Setting regular tasks keeps progress consistent. Monitoring this mark book helps you quickly identify areas that need extra support.

As you work through from the Are You Ready section to the end of topic Test, students begin to make more rapid progress. Real time results mean that children can benefit from early intervention.



Viewing Attempts

Hover over a cell to see the number of times a student has attempted an activity. The score displaying in the cell will always be their most recent score.



Inform your Planning

Use the results information to help you with lesson timetabling and deciding how to group students for learning.



Inform Outcomes

Set a class Gold Bar challenge in an activity; hold a class party when everyone achieves it.

Use results to pair children in a buddy support system.

RESULTS: Set Minimum Levels in Live Mathletics

Live Maths Report

Demo Teacher
DEMO St Phillip's School

Class: Demo Year 6 Group: Demo Year 6

Reports - Live Mathletics Report

Student Name	Level 1 and above	Level 2 and above	Level 3 and above	Level 4 and above	Level 5 and above	Level 6 and above	Level 7 and above	Level 8 and above	Level 9 and above	Level 10
Rachel Cox	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cat Davies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kim Daye	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lisa Eagling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Romilly Gibbs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Florin Gurau	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yvonne Irvine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Caprice Jerome	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patrycja Kozłowska	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evy Loizou	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kathleen Mackey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kathleen Mackey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monika Niemczyk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Kate Oakley-Green	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ally Phillips	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Donna Pockson	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Save Back to Report

Green arrows indicate suggested minimum levels based on student results

Return to the Live Mathletics results page



Get Started

1. Select Minimum Levels from the Results area
2. Choose your class using the Class filter at the top
3. Set a minimum level for the whole class using the button at the top of the column or set a minimum level for an individual using the radio button that corresponds to their name
4. Click Save to save your changes



Direct Learning

Setting minimum levels in Live Mathletics means you can direct students to a level of mental maths practice that is appropriate to their ability or challenge children to stretch themselves where you feel it's appropriate. Doing this regularly will move students along and support continuous improvement in numerical fluency.



Promoting Progression

You can set a minimum level but not a maximum level. This means that students will not be able to select the levels below the minimum you have set but can challenge themselves by attempting higher levels. Bonus points will direct students to try the next most appropriate level.



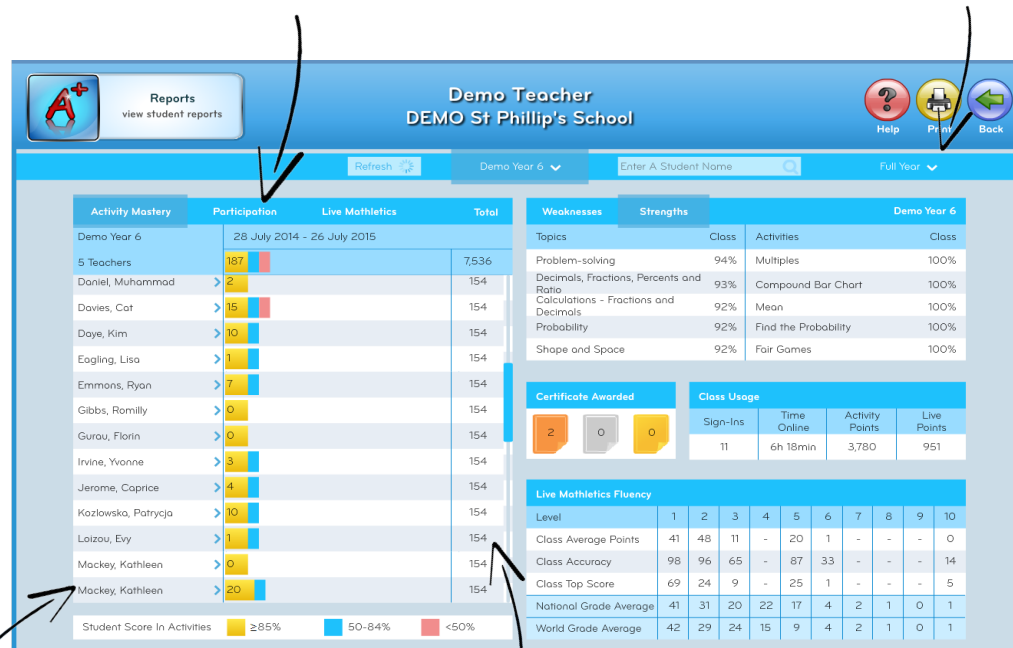
Evidence Progress

Use the export to Excel function to compare Live Mathletics results with other in-school assessment results. Creating comparative graphs will allow you to easily spot correlations and evidence the impact of using Mathletics in the school.

REPORTS: Monitor Progress and Engagement

Switch between Activity Master, Participation and Live Mathletics

Choose a date range here



Click on a name to see more detail

Shows the total number of activities in allocated course



Get Started

1. Select the large 'Reports' icon
2. Choose your class using the Class filter at the top
3. The default view shows results for the current academic year, use the date filter to change the date range
4. 'Activity Mastery' shows progress towards course completion
5. 'Participation' shows the total number of points and certificates earned by class or pupil
6. 'Live Mathletics' shows more detailed results for fluency and mental maths



Reward Effort

Use Reports to celebrate achievement, maintain engagement and monitor progress. Using certificates to acknowledge effort is inclusive because all children earn certificates regardless of ability.



Refresh

Show real-time results using the 'Refresh' button and monitor pupil progress and understanding during lessons.



Create Balance

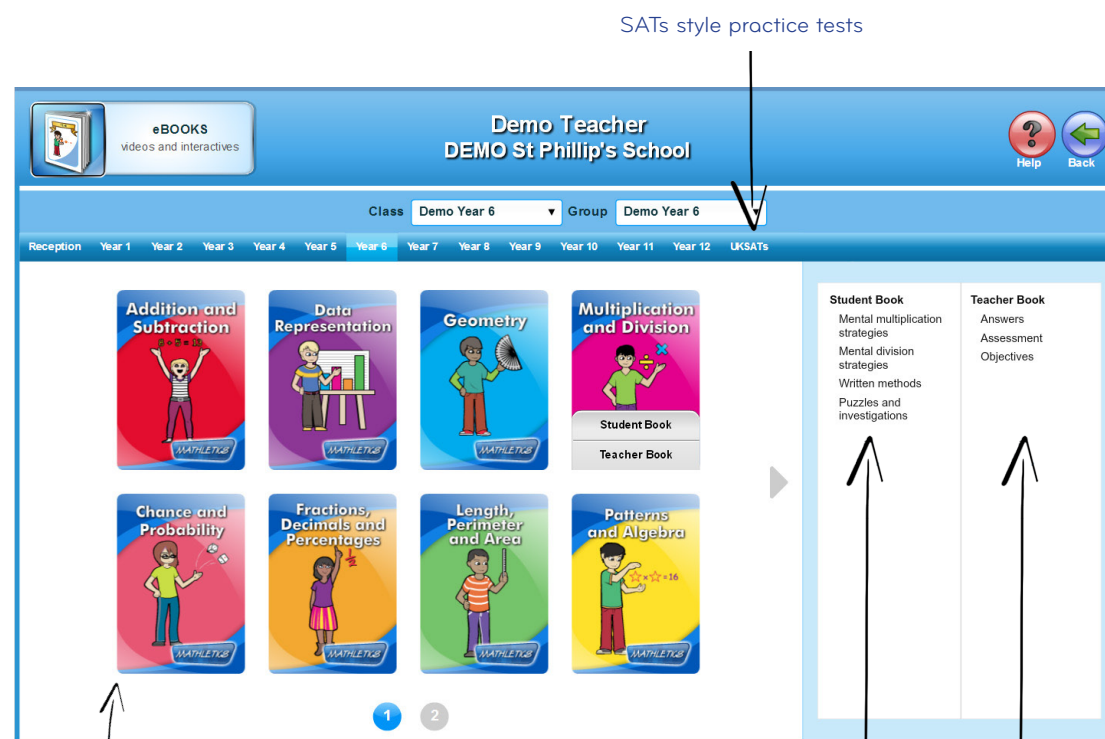
If you notice that students are spending most of their time on Live Mathletics, encourage them to spend more time on the Curriculum content by reminding them that 10 points are available per correct answer rather than 1 point in Live Mathletics.



Celebrate Success

Print complete pupil reports and use to discuss areas for development with individual children. These can also be useful for report writing and parent's evenings.

Hold a weekly certificate presentation and create a classroom or school wall of fame for certificates.



Workbooks arranged by concept

Use the whole book or specific chapters

Available interactives or videos will appear here



Get Started

1. Select the year group you want to browse
2. Scroll through the available books using the arrows or numbers at the bottom of the screen
3. Click the book you're interested in
4. Click the book or section you want from the right hand window to download it



Develop Mathematical Thinking

The activities in the eBooks are designed to develop reasoning and analytical skills through longer problem solving style activities. The eBook content moves students from practice to application and can be used as an opportunity for students to show their workings



Advanced Features

Videos and interactives are only available in the secondary eBooks. Secondary students can also see eBooks in their Student Centre.



Blended Learning

Use as part of a carousel activity.

Try eBooks as an alternative approach to consolidate or help understanding.

Present sections on your projector and ask students to work in groups to solve the word problem questions.

Use the Solutions and Answers sections for students to self-assess or for peer assessment.



View and Download eBooks in the Mathletics Teacher app

Visit www.mathletics.com/mobile

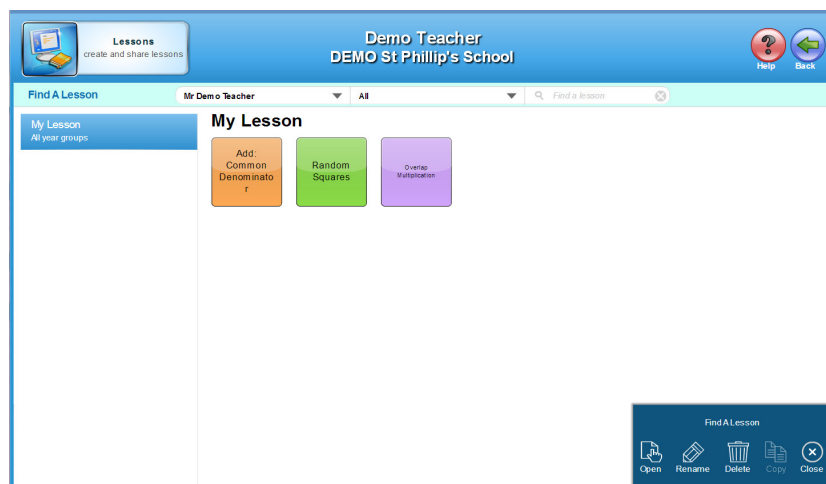
LESSONS: Search for and Build a Sequence of Resources



Search by keyword

Preview lesson components

Click to remove or preview individual sequence units



Open, rename or delete a lesson



Design your Lesson

1. Choose the country and course you are following from the filters at the top of the page
2. Select the topic to display all relevant content
3. Drag and drop the resources you want to the bottom panel
4. Click Save As to finalise and name your sequence or click Play straight away



Retrieve and Play your Lesson

1. Click Find
2. Select your own name to view lessons you have designed, a colleague's name to view their lessons or Mathletics for pre-designed lessons
3. Select the lesson you are looking for (the sequence will display on screen)
4. Click Open to edit, add to or play the lesson



Explore a Concept

This area brings together related Curriculum activities, eBooks, interactives and videos so you can create a pathway of lesson resources in advance; this can give you more time with the students in class. You can also work more collaboratively with colleagues using the sharing function.



Sharing Lessons

Use the results information to help you with lesson timetabling and deciding how to group students for learning.



Whole Class Teaching

Introduce and work through an activity as a class, give students mini whiteboards to show their workings.

ASSESSMENTS: Set Summative Tests

View Results is available once one child has completed the assessment

View Results as they are submitted

Assessments	Number of Students	Results
UK SATs Style Test - KS 2 Round 1 Test A (non-calc)	Scheduled: 0 Completed: 0	Avg Score: 68% High Score: 68% Low Score: 68%
UK SATs Style Test - KS 2 Round 1 Test B (calc)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
UK SATs Style Test - KS 2 Round 2 Test A (non-calc)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
UK SATs Style Test - KS 2 Round 2 Test B (calc)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
UK SATs Style Test - KS 2 Round 3 Test A (non-calc)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
UK SATs Style Test - KS 2 Round 3 Test B (calc)	Scheduled: 0	Avg Score: 0%

Print or export the test to use offline



Get Started

1. Select the class you are working with from the class filter
2. Use the assessments filter to choose the test type and age category
3. Click Preview to check the suitability of the questions
4. Click Schedule Assessment
5. Select the children who need to take the test
6. Choose the time and duration and schedule the test
7. Click View Results once the test is complete



Formative Assessment

You can use these tests to benchmark students, using these in conjunction with the topic tests will help you identify where revision is needed. You can also use these assessments to prepare children for formal summative assessment and to gather evidence about their progress.



Assessment Format

Assessments are multiple choice and all students receive the same set of questions. Once they have started the test, students can opt to leave at any point; their time allowance to complete the test is frozen until they return.



Prepare for Tests

To assess the effectiveness of Mathletics, set an assessment at the beginning and end of term and compare the results.

Use Assessments for mock tests without the pressure of a test environment.

OUR RESOURCES: Request a Free Trial

If you are enjoying using Mathletics we would like to let you know about our reading and spelling resources, Reading Eggs and Spellodrome. To explore whether either program would be suitable for your class or school, either visit the websites below or contact us to register for your free 2 week trial.



Children embark on their captivating journey through Reading Eggs, discovering, practising and applying early reading strategies. Their journey continues onto Reading Eggspress where they analyse a range of text types and tackle more complex comprehension.

With access to over 1,000 eBooks, children are encouraged to discuss their favourite stories and develop a love of reading. Children can even read on the move with instant access to the Library on the iPad.

Reading Eggs supports a range of reading strategies and skills including phonics, letter formation, blending and segmenting, letter and word recognition, comprehension and fluency.



Request your free Reading Eggs trial

www.3presources-reading.co.uk

e: support@3plearning.co.uk

t: 0117 370 1990



Spellodrome is designed to improve key spelling strategies through play and practice. The exciting Spellodrome world keeps students motivated to enjoy spelling and improve their results.

Teachers can personalise learning by creating spelling groups and assigning word lists for the children to focus on. Printable worksheets consolidate and contextualise spelling practice.

Spellodrome employs a variety of techniques to help children move their spelling onto the next level. As well as giving spelling a boost, this engaging resource enriches vocabulary, comprehension and phonic knowledge.



Request your free Spellodrome trial

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e: support@3plearning.co.uk

t: 0117 370 1990



NOTES



APPENDIX



Mathletics

Use Mathletics? Now get certified.

The Mathletics Certification Pathway acknowledges and rewards the outstanding contribution teachers are making on behalf of students and school communities. Add value to your students' learning, gain recognition and accumulate PD hours.



Find out more today at www.3plearning.com/certification



Lead Educator Programme The Certification Pathway

Certification 1 (Class Focus) Assessment Grid

Name:	School Name:	School Code:*
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My students use Mathletics as part of their learning process to improve results.

My students regularly use Mathletics for learning.

Objective		Tips for Success
C1.1 My students access Live Mathletics independently at school and at home.	<input type="checkbox"/>	Set a regular Live Mathletics night for homework where pupils can play other children from the class. Use Live Mathletics as a reward or starter to warm up before a maths lesson.
C1.2 My students access Mathletics curriculum activities independently at school and at home.	<input type="checkbox"/>	Remind students that they earn 10 times as many points for a correct answer in a curriculum activity as in Live Mathletics. Set curriculum activities as homework.
C1.3 My students understand the points and rewards systems, know how to earn a certificate and I acknowledge their success.	<input type="checkbox"/>	Set pupils a target to earn their first bronze, silver or gold certificate. Tell pupils choose something to save up for in the Facemaker shop. Create a class or school 'Wall of Fame' with Mathletics certificates.
C1.4 My students are encouraged to repeat curriculum activities and are aware that the questions are adaptive.	<input type="checkbox"/>	Set targets to convert a certain number of results from Blue Bars to Gold Bars in a week, record this on a wall chart of individual tracker.
C1.5 My students use Support when they need help.	<input type="checkbox"/>	Use Support when introducing an activity to explore the methods used to answer a question.

I use the Mathletics teacher console resources to enrich the learning process for my students.

Objective		Tips for Success
C1.6 I use the Teacher Demonstration feature for whole class and group teaching.	<input type="checkbox"/>	Use the Teacher Demonstration tool to model curriculum activities before asking pupils to have a go. Access Live Mathletics to compete against your pupils.
C1.7 I use eBooks as an additional teaching resource.	<input type="checkbox"/>	Use as part of a carousel of online and offline activities. Display eBooks problem-solving activities on the IWB for collaborative work.
C1.8 I use Results to set tasks for my class.	<input type="checkbox"/>	Set tasks for homework. Use the Results mark book to help you decide how to group children for learning.

I use the Mathletics teacher console resources for assessment.

Objective		Tips for Success
C1.9 I use Reports to review progress in curriculum topics and Live Mathletics.	<input type="checkbox"/>	Use the 'export' button to save data and use as evidence of progress for pupil reports and progress reviews.
C1.10 I use Assessments and topic tests as part of the learning process.	<input type="checkbox"/>	To assess the impact of Mathletics, set an assessment at the beginning and end of term and compare the results. Use Assessments for mock tests without the pressure of a test environment.

Find guides and support here: www.3plearning.com/training

Submit your completed certification at www.mathletics.com/certification

* Contact customer service to obtain your school code: 0117 3701990 customerservice@3plearning.co.uk



Lead Educator Programme The Certification Pathway

Certification 2
(Student Focus)
Assessment Grid

Name:	School Name:	School Code:*
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I use Mathletics to develop my students as learners and ensure maximum individual results.

Each of my students has their own targeted and individual learning pathway.

Student Outcomes		Objective	Tips for Success
C2.1	<input type="checkbox"/>	My students' engagement is maintained with regular recognition of achievement e.g. presentation of certificates, trophies, class parties.	Hold a weekly certificate presentation. Ask pupils to choose a background from the Mathletics shop to work towards. Have a class party when everyone reaches their target. Create a class certificate wall of fame.
C2.2	<input type="checkbox"/>	My students can use Mathletics to find the information they need to answer a question e.g. using Support, Concept Search, Dictionary.	Ask pupils to find a new mathematical term in the animated dictionary each week and explain it to the class. Ask a more able child to explain to a less able child how to answer a question using the Support centre.
C2.3	<input type="checkbox"/>	My students can identify and select activities which will help them to progress, and access Easier/Harder activities.	In groups examine how a Something Easier activity supports moving onto the core activities, discuss strategies using Support. Encourage students to strive for Human Calculator status in Live Mathletics and keep a class record.
C2.4	<input type="checkbox"/>	My students use their curriculum results to reflect on their learning and recognise what they need to do to progress.	Remind students to check their gold bar status and convert red or blue bars to gold.
C2.5	<input type="checkbox"/>	I use Live Mathletics to model and teach number strategies to my class.	Play Live Mathletics with the whole class. At the end, review the questions and discuss which calculation strategy to use for each one.

I use a range of Mathletics resources and strategies to develop independent learners.

Teaching Outcomes		Objective	Tips for Success
C2.6	<input type="checkbox"/>	I regularly create, edit and adjust groups in my class to cater for the changing needs of individual learners.	Use groups to assign content to children with specific needs such as EAL, SEN or G&T. Create mixed ability groups and ask each group to study a concept and teach it to the rest of the class.
C2.7	<input type="checkbox"/>	I integrate eBooks/interactives into my lessons to teach mathematical concepts and problem-solving strategies.	Use eBooks to tackle misconceptions with individual pupils. Ask pupils to complete an eBook activity before moving on to Mathletics curriculum activities online.
C2.8	<input type="checkbox"/>	I use Results and Reports to provide feedback to my students.	Name 3 Mathletics stars of the week using the participation summary to highlight highest scorers. Use the individual activity summaries to discuss areas for development with individual children.
C2.9	<input type="checkbox"/>	I regularly use Results to set support, core and extension activities for individuals and groups in my class.	Assign the 'Are you ready?' activity at the beginning of each topic to highlight knowledge gaps and inform planning. Use Results to target pupils who need support/extension with Something Easier/Harder activities.
C2.10	<input type="checkbox"/>	I use the Courses area to provide personal learning pathways for my students.	Create booster/extension courses based on results for students to work on alongside the core course.
C2.11	<input type="checkbox"/>	I use Mathletics to develop different mathematical skills e.g. problem-solving, mental and written calculation strategies, fact recall.	Combine multiple courses to support working with composite classes. Use curriculum word problems to model problem-solving strategies whole class before asking pupils to complete them independently.
C2.12	<input type="checkbox"/>	I use the Lessons features to introduce, explore and reinforce new concepts.	Use Live Mathletics to explore a range of mental calculation strategies.
C2.13	<input type="checkbox"/>	I use Mathletics to support a range of teaching and learning strategies e.g group work, whole class, peer teaching, collaborative learning.	Use Lessons to introduce and work through an activity on the IWB with the whole class. Ask pupils to record their answers on mini-whiteboards. Group work: Use eBooks for group investigations and problem-solving. Peer teaching: Use Results to pair children in a buddy support system.

Submit your completed certification at www.mathletics.com/certification



Lead Educator Programme

The Certification Pathway

Certification 2 (Student Focus) Assessment Grid

Name:	School Name:	School Code:*
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I use Mathletics to develop my students as learners and ensure maximum individual results.

I use Mathletics for formative and summative assessment.

Assessment Outcomes		Objective	Tips for Success
C2.14	<input type="checkbox"/>	I use Results and Reports to identify whole class, group or individual strengths and weaknesses and use this data to inform my mathematics planning.	Assign the 'Are you ready?' activity at the beginning of each topic to highlight knowledge gaps. Create booster/extension courses based on student results for students to work on alongside the core course. Use Results to assign topic tests at the end of each unit to diagnose knowledge gaps.
C2.15	<input type="checkbox"/>	I adjust Mathletics courses, Live Mathletics levels and class groupings based on data from Results and Reports for individuals, groups and classes.	Set termly or half-termly reminders to review courses, groups and levels based on Results and Reports.
C2.16	<input type="checkbox"/>	I export and use Mathletics results as part of my end of term or end of year assessment.	Share your printed Mathletics student reports at parents meetings. Share these reports with your colleagues to aid your pupils' transition from year to year.
C2.17	<input type="checkbox"/>	I use Assessments and topic tests for diagnostic, formative and summative assessment.	Assess progress by assigning beginning and end of term Assessments. Use Results to assign topic tests at the end of each unit to diagnose knowledge gaps and inform planning.

Have you completed Certification 2? The next step on your learning pathway is to join the growing community of teachers who are enjoying recognition as certified Mathletics Lead Educators.

"Thank you for giving me the opportunity to work through what a key part mathletics plays in the mathematics curriculum in our school. Sometimes it takes a process such as this for you to really think through what you do and how successful it really is!"

David Waite, MLE, East Ward Primary School, England

"The Certification Initiative was valuable to me as it helped me lead the implementation of Mathletics across the school. I am now in the process of supporting 3 other teachers as they begin the certification process. It is benefiting our students as teachers become more confident with integrating Mathletics into their teaching."

Anthony Tait, MLE, Caledonian Primary School, Australia

"I welcome this initiative as it helped me and many of the teachers in my school to evaluate the use of Mathletics and really make the most of the Mathletics resources."

Zohra Benotmane, MLE, Snowfields Primary School, England

"I have really enjoyed being part of the 'Lead Educator Program'. Mathletics is something that I am truly passionate about. I have thrived seeing Mathletics grow throughout the school and the enthusiasm that pupils in all years group have for it. It was a fantastic opportunity to work with other teachers and to discuss how we could use this resource to the highest capacity. Talking with other like minded people and sharing ideas was invaluable. Thank you for the opportunity."

Ruth Sivarajah, MLE, Langafel Primary School, England

Find guides and support here: www.3plearning.com/training

Submit your completed certification at www.mathletics.com/certification

* Contact customer service to obtain your school code: 0117 3701990 customerservice@3plearning.co.uk



Lead Educator Programme The Certification Pathway

Lead Educator
(School Focus)
Assessment Grid

Name:	School Name:	School Code:*
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I integrate Mathletics to target and improve whole-school numeracy goals.

My students belong to a connected learning community at home and at school.

Student Outcomes		Objective	Tips for Success
CL.1	<input type="checkbox"/>	I coordinate participation at class, cohort or school events including Challenges and World Maths Day.	Design a 'Run Your Own Maths Week' pack that you can share with your colleagues.
CL.2	<input type="checkbox"/>	I administer in-school competitions.	Run a school or class competition using Live Mathletics vs school or class. Invite other schools in the area to participate.
CL.3	<input type="checkbox"/>	I provide teachers with strategies to keep students engaged in their mathematics learning.	Integrate Mathletics rewards with your in-school reward system. Direct teachers to use Mathletics eBooks to find ideas for contextualising maths with real-life scenarios.
CL.4	<input type="checkbox"/>	I define and implement school-wide recognition strategies for greater student engagement.	Include Mathletics awards and news in your school newsletter or blog. Create a Class of the Term award based on certificates and Live Mathletics tallies.
CL.5	<input type="checkbox"/>	Student achievement in Mathletics is acknowledged throughout the school.	Create a Hall of Fame display area for Mathletics achievements. Coordinate weekly class, year group or whole-school presentations during assemblies.
CL.6	<input type="checkbox"/>	I support whole school engagement through involving parents, communicating success stories and updating the school community with developments in Mathletics.	Direct parents to register for reports at www.mathletics.com/parent . Offer Mathletics taster sessions for parents, highlighting support features.

I use the Mathletics teacher console resources to enrich the learning process for my students.

Teaching Outcomes		Objective	Tips for Success
CL.7	<input type="checkbox"/>	I provide Mathletics teacher training as part of the school professional development programme.	Direct new teachers to the training and support portal at www.3plearning.com/training . Encourage staff to join the certification pathway and attend Mathletics webinars.
CL.8	<input type="checkbox"/>	I support teachers in moving through the Mathletics Certification Pathway.	Run sessions to share best practice and support teachers in meeting certification assessment criteria. Display your Mathletics Account Manager contact details in the staff room.
CL.9	<input type="checkbox"/>	I ensure that the use of Mathletics is included in school mathematics planning.	Create a sequence of resources using Lessons and share them with your colleagues through your teacher centre. Recommend appropriate eBook content to support colleagues in teaching application and reasoning skills.
CL.10	<input type="checkbox"/>	I provide assistance to colleagues in integrating Mathletics to drive innovation and improve results in my school.	Demonstrate the Mathletics Teacher App (iPhone) and Student Apps (iPad and Android devices). Encourage teachers to use the Concept Search and the support centre to teach maths using flipped learning.
CL.11	<input type="checkbox"/>	I keep abreast of Mathletics product development and provide our school community with regular updates.	Check the Mathletics 'What's New' page at www.3plearning.com . Follow Mathletics on Twitter and retweet interesting news. Share Mathletics news in the school newsletter or blog.

Submit your completed certification at www.mathletics.com/certification



Lead Educator Programme The Certification Pathway

Lead Educator
(School Focus)
Assessment Grid

Name:	School Name:	School Code:*
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I integrate Mathletics to target and improve whole-school numeracy goals.

I use the Mathletics teacher console resources for assessment.

	Objective	Tips for Success
CL.12	I use School Usage to review whole-school progress and to provide feedback to teachers. <input type="checkbox"/>	Monitor class and school usage and highlight any topic strengths and weaknesses in staff meetings. Filter by date range to see a snapshot of classes who may need extra support in engaging students with Mathletics. Share success stories on the Mathletics blog (email your Account Manager with your story and photos).
CL.13	I use class and school results to inform long-term mathematics planning. <input type="checkbox"/>	Use Assessments to benchmark whole-school performance and identify areas for development. Work with your colleagues at the end of each term to analyse Mathletics results in order to inform student and class groupings.
CL.14	I interpret student assessments to identify common misconceptions and provide strategies for intervention. <input type="checkbox"/>	Use outcome based reporting in Assessments to inform teaching topics for concept-specific booster classes.
CL.15	I provide expert training for teachers in using Results and Reports to assess their classes. <input type="checkbox"/>	Have an open-door policy for teachers who need help with using Mathletics to assess student performance.
CL.16	I provide teachers with a Mathletics assessment plan i.e. how to assess and when <input type="checkbox"/>	Use Mathletics Assessments to prepare students for school or statutory assessments, and provide teachers with training on how to schedule tests and view results.

	Objective	Tips for Success
CL.17	I have accessed training resources to support my learning through the Training and Support Portal. <input type="checkbox"/>	Visit www.3plearning.com/training
CL.18	I have participated in Mathletics PD: webinars, workshops or in-house training. <input type="checkbox"/>	Visit www.3plearning.com/training or contact your Account Manager on 0117 3701990.

How are you getting on with Mathletics?

We are always looking for feedback from our schools and would love to hear about how you use Mathletics so that we can share your story with the wider Mathletics community. Contact your account manager to arrange a convenient time to discuss your experience. Email customerservice@3plearning.co.uk or call us on 0117 3701990.

Find guides and support here: www.3plearning.com/training

Submit your completed certification at www.mathletics.com/certification

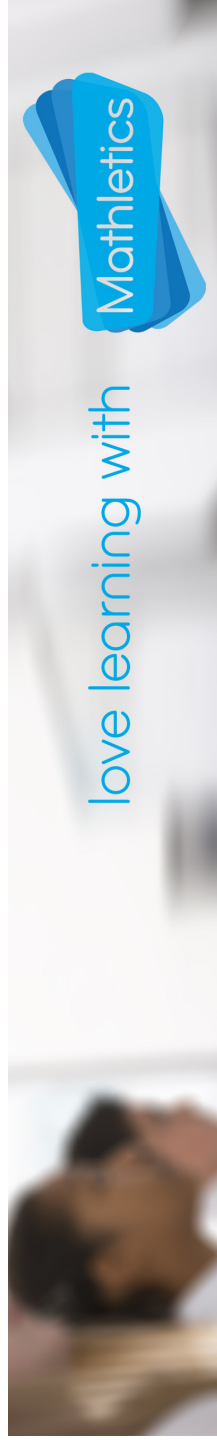
* Contact customer service to obtain your school code: 0117 3701990 customerservice@3plearning.co.uk



LIVE MATHLETICS

Live Mathletics has ten levels across all gaming areas. The levels are the same for all students. Below is a summary of what question types are included at each level.

LEVEL 1	Addition from 1 - 10 Doubles up to 10	LEVEL 7	Simple ratios with two numbers Cubes Adding and subtracting negative numbers Multiplying negative and positive numbers 24 hour time Converting between cm ³ and mL Converting between mL and cm ³ Converting between cm ³ and L Converting between L and cm ³ Missing term in a sequence with decimals Order of Operations Solving simple one step equations Solving simple two step equations
LEVEL 2	Addition from 1 - 20 Subtraction from 1 - 20	LEVEL 8	Simplifying ratios with three terms Order of operations with whole numbers up to 50 Multiplying 3 numbers Converting between m ² and cm ² Converting between mm ² and cm ² Converting between m ³ and cm ³ Converting between cm ³ and mm ³ Surface area of cubes Pythagorean triads Solving simple one step equations Solving simple two step equations Simple factorising
LEVEL 3	Addition from 1 - 50 Subtraction from 1 - 50 2s, 3s, 4s, 5s and 10s Times Tables Doubles and halves up to 50 Addition from 1 - 20 with a missing addend	LEVEL 9	Algebraic Substitution Expanding brackets Find the midpoint between two points Factorising simple quadratics Expanding simple quadratics
LEVEL 4	Addition from 1 - 100 Subtraction from 1 - 100 Times Tables to 10 x 10 Doubles and halves up to 100 2s, 3s, 4s, 5s and 10s division facts Addition from 1 - 50 with a missing addend Times Tables to 10 x 10 with a missing factor	LEVEL 10	Logarithms Solving equations
LEVEL 5	Addition from 1 - 500 Subtraction from 1 - 100 Addition from 1 to 100 with a missing addend All multiplication and division facts to 10 x 10 Time conversions Length conversions		
LEVEL 6	Decimal addition from 0.1 to 1.0 Decimal subtraction from 1.0 Multiply decimal by whole number Multiply decimal by decimal Order of operations with whole numbers Multiplying 3 numbers Converting millimetres, centimetres and metres 24 hour time Simple Algebraic substitution Missing term in a sequence with whole numbers Patterns of 1 to 10 Sum, difference, product and quotient Missing term in a sequence with decimals		



Dear Parent or Guardian,

Your child is now using Mathletics as an important part of their maths learning programme. Your child has access to Mathletics through a unique username and password.

We recommend that you spend time looking at Mathletics with your child so that you can understand how it will benefit their learning. As a parent or guardian, you can sign up to receive weekly email reports. These reports will provide you with details of your child's progress and achievement.

To register as a parent, you will need your child's username and password.

- Visit www.mathletics.com/parent
- Complete the fields and click **Register**
- Record your new username and password

To access the Mathletics Family Centre:

- Visit www.mathletics.com
- Sign in using your own username and password

If you experience difficulty in accessing Mathletics at home please contact us on 0117 370 1990 or email customerservice@3plearning.co.uk.

Welcome to the Mathletics Community!



3P Learning

A place for schools and families to love learning



brought to you by



3P Learning

For more help visit
www.3plearning.com
or contact the Customer Support Team:
e: support@3plearning.co.uk
t: 0117 370 1990