

# Mathletics For Teachers

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Welcome to the Mathletics community! The Teacher Console is designed to help you enhance your students' experience of Mathletics and gather valuable insight into their progress. A host of valuable tools, reports and learning resources are available – allowing teachers to easily tailor Mathletics to the varied needs of their classrooms, in turn leading to better differentiation, more focused learning and improved results.

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# Mathletics For Teachers

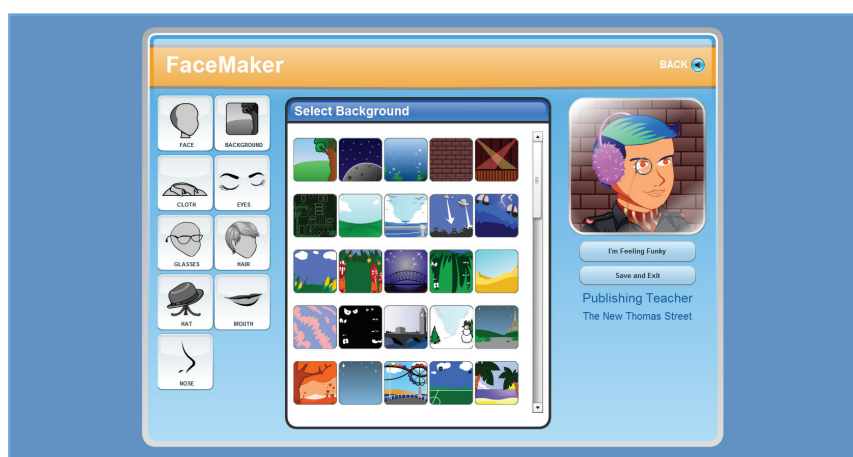
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## Getting Started

- 01 This is the Mathletics homepage. Simply click the **Sign In** button and enter your username & password.
- 02 Check out the **Hall of Fame**, showing the top students in the world (and your local country) today. Look out for your students in the Top 50 classes!
- 03 The first time you sign in, you will be taken to the **FaceMaker** to create your avatar – time to get creative!



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## Getting Started

- 01 This is the main **Teacher Console** – your launch pad to the many tools, reports and resources available to you.
- 02 If you are using Mathletics with your class for the first time, the best place to start is here. Access and print the sign-in cards for your students, to give them their individual usernames and passwords.



The **Teacher Console** is a powerful toolbox for teachers, designed to reduce workload by automating marking, reporting and administration – while providing world class learning resources to empower educators with the time and freedom to teach.



### Mathletics Teacher App Available For Mobile Devices

Ever leave school for the day and forget to set those homework tasks for your class? Or maybe you'd like to review your students' results on the commute home? Teachers can now take their access anywhere with the Mathletics app for selected mobile devices.

For more information visit [www.mathletics.com/mobile](http://www.mathletics.com/mobile)



Welcome to the Mathletics community! The Teacher Console is designed to help you enhance your students' experience of Mathletics and gather valuable insight into their progress. A host of valuable tools, reports and learning resources are available – allowing teachers to easily tailor Mathletics to the varied needs of their classrooms, in turn leading to better differentiation, more focused learning and improved results.

### The Teacher Console



The **Classes** tool allows teachers to easily manage the classes and groups of students that they are responsible for. Add students into your classes or move them around. It is also possible to split a class into up to six groups, each assigned their own curricula for even greater differentiation.

For a more detailed look at the **Classes** tool, see page 6 of this guide.



The **Course** tool is a window on the huge library of nationally-aligned curricula available within Mathletics. Explore the many courses available and assign any of them to your own class. There is also the option to create a bespoke course from the thousands of components available, to perfectly suit the needs of your class or school.

For a more detailed look at the **Course** tool, see page 6 of this guide.



**Results** is one of the cornerstone tools for teachers. Both an integrated digital mark book - where students' results appear in real time – and also a tool for setting targeted curriculum activities to individuals or groups of students. Create bespoke learning pathways in just a couple of clicks. **Results** also provides guidance with visual cues, highlighting students potential areas of development.

For a more detailed look at the **Results** tool, see page 11 of this guide.



**Reports** is the main dashboard for a host of automated student results data. From individual student summary reports (great for parent/teacher meetings) to weekly summaries of classroom performance, improvements and certificates, to specific reports from the Live Mathletics area, **Reports** is a one-stop-shop putting key data at your fingertips.

For a more detailed look at the **Reports** tool, see page 15 of this guide.



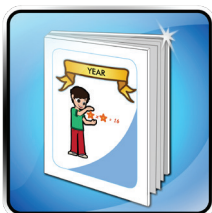
The **Assessments** tool is a great resource through which you can assign standard benchmarking tests to your students. Once students have completed the tests, Assessments will provide useful diagnostic and analytic information. Used at regular intervals, Assessments is a key resource for tracking student improvement.

For a more detailed look at the **Assessments** tool, see page 21 of this guide.



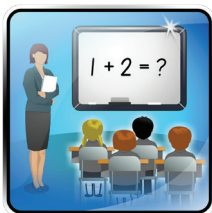
Welcome to the Mathletics community! The Teacher Console is designed to help you enhance your students' experience of Mathletics and gather valuable insight into their progress. A host of valuable tools, reports and learning resources are available – allowing teachers to easily tailor Mathletics to the varied needs of their classrooms, in turn leading to better differentiation, more focused learning and improved results.

### The Teacher Console



The library of Mathletics **eBooks** is a huge additional teaching and learning resource to the online curriculum area. Building to several thousand printable pages, each year/grade level has several eBooks available to download – individually targeted at a specific strand of mathematics. Integrated interactive components bring the digital page to life. Student and teacher eBooks are available.

For a more detailed look at the eBooks, see page 26 of this guide.



For working directly with your class, the **Demonstrations** icon is very useful. One click will take you directly to the student interface – with the relevant curriculum and content for your class – allowing you to see what the students see. This is particularly useful for whole-class demonstrations and interactive whiteboard use.



The **Toolkit** is a portal to view and browse all of the multimedia content available within Mathletics. Use keywords to search the library for Concept Search components, activities, video and tutorials. This is particularly useful for whole-class demonstrations and interactive whiteboard use.



**Lessons** is another corner tool within Mathletics, allowing teachers to create rich multimedia lesson plans – even sharing the lessons with colleagues. These lessons are perfect for **one-to-one teaching** or **Interactive Whiteboard use** in a classroom.

For a more detailed look at the Lessons tool, see page 27 of this guide.



The Action Bar along the bottom of the screen contains useful links – for example to print your students' certificates.



We are always releasing new and updated features for teachers. Be sure to follow the Mathletics blog for regular news.



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

## The Ten Levels

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

# Classes

In the **Classes** area you can move your students between classes, as well as divide them into a number of **learning groups**, allowing you to assign different curriculum levels to specific groups of students.

## Part One: Creating learning groups within your class...

- 01 Select the class you wish to work with from the dropdown menu at the top of the screen.
- 02 Click the **New Group** tab, and give your new group a name and default course.  
(Note: the group name is not visible to students.)
- 03 To **move students** into this new group, simply drag and drop them from the main list of student names (in the first tab) up to the newly created tab for the group.
- 04 Should you need to, you can **rename** or **delete** your group at any time by using the buttons at the bottom of the screen.

Student	Username/Password	Group	Course
Bamford, Yvonne	YB-8464/down87	Demo Year 6	England Year 6
Berry, Liz	LC77720/curb77	Demo Year 6	England Year 6
Caruana, David	DC-3795/rugby56	Demo Year 6	England Year 6
Cobb, Claire	CC-3458/scout73	Demo Year 6	England Year 6
Condon, Carole	CC10046/sniff19	Demo Year 6	England Year 6
Cox, Rachel	RC9049/curve11	Demo Year 6	England Year 6
Davies, Cat	CD70531/blue25	Demo Year 6	England Year 6
Eagling, Lisa	LP8525/click25	Demo Year 6	England Year 6
Gibbs, Romilly	RG38478/spoke12	Demo Year 6	England Year 6
Griffiths, Kay	KG04915/rent59	Demo Year 6	England Year 6
Jones, Bronwen	BJ8405/chip10	Demo Year 6	England Year 6
Leskova, Zlatica	ZL-7303/shave96	Demo Year 6	England Year 6
Loizou, Evy	EL-2103/ocean95	Demo Year 6	England Year 6
M, Michelle	MM-16678/tick30	Demo Year 6	England Year 6
Mackey, Kathleen	KM95691/fifth25	Demo Year 6	England Year 6
Mc Kenna, Clare	CM25487/ocean22	Demo Year 6	England Year 6
Niemczyk, Monika	MN75733/blink91	Demo Year 6	England Year 6



Groups are fantastic for mixed ability classes, allowing individual learning pathways for specific students.



Students in groups remain in their original class for results purposes, but will access the different course assigned to them.



You can split a class into up to 12 groups, each with their own individual curriculum settings



To change a student's password, click in the relevant cell and simply overwrite. Updates are automatically saved



# Classes

In the **Classes** area you can move your students between classes, as well as divide them into a number of **learning groups**, allowing you to assign different curriculum levels to specific groups of students.

## Part Two: Moving students between classes...

- 01 Select the class you wish to move the student(s) into using from the dropdown menu.
- 02 Click the **Move Students** button at the bottom of the screen.
- 03 Use the dropdown menus to locate the student(s) you wish to move into your class. These will appear in the table below.
- 04 Simply drag and drop your required student(s) from right to left, into your class list. The student accounts - and their results data - will be transferred to your class immediately.

The screenshot shows the Mathletics 'Classes' interface for Isaac Newton St Phillip's School. The main area displays a list of students in 'Demo Year 6' (28 students). On the right, there is a 'Find Students' search area with dropdowns for Surname, Grade/Year, and Classes. Below the search area is a table for 'Drag students across into group' with columns for Student, Grade, Class, and Course. The 'Move Students' button is at the bottom right.



When moving a student between classes you have the option to **COPY** their account – great if a student is required to be linked to more than one class at once..



You can transfer any student linked to the school's account into your class or group, even if they are currently assigned to another teacher.

# Courses

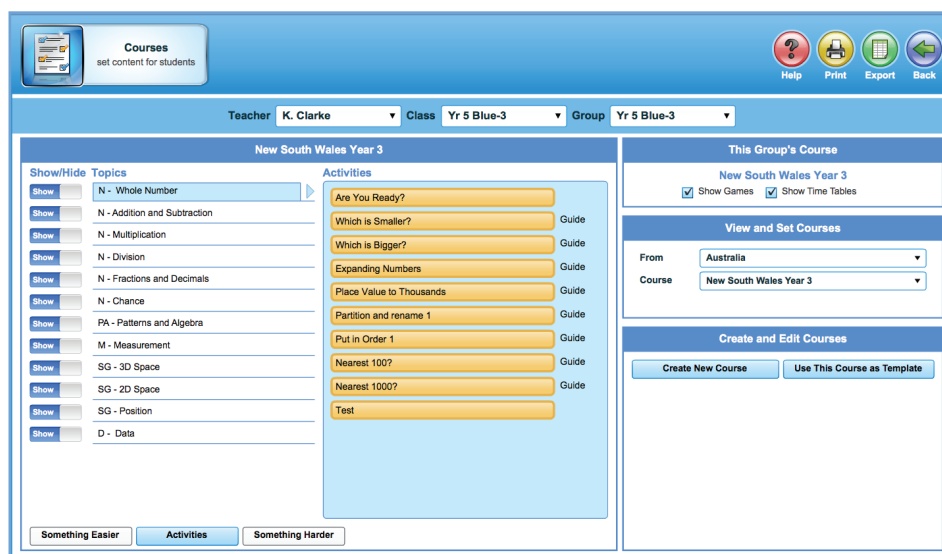
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# Mathletics

In **Courses** you can explore the many internationally aligned curricula available within Mathletics. You can also create your own completely bespoke course for use in your classroom.

## View or Change Courses

- 01 Select your class and group from the dropdown menus at the top of the screen. This will display the course currently assigned to those students.
- 02 To explore the activities outside of the core curriculum, simply click the **Something Easier/Harder** buttons.
- 03 Explore other available courses using the **View and Set Courses** panel. To assign to selected class, click **Set Course**.



Control when your students can view individual topic areas using the **SHOW/HIDE** buttons on the left of the screen.



**TEACHER GUIDES** are available for all activities, containing sample questions and teaching hints. Simply click on the links in the central panel.



**PREVIEW** any activity by right-clicking it in the central panel area. This will display the student view of the activity.

# Courses

In **Courses** you can explore the many internationally aligned curricula available within Mathletics. You can also create your own completely bespoke course for use in your classroom.

## Create a Bespoke Course

- 01 Using the **Create and Edit Courses** panel, you can choose to create a new course from scratch, or use an existing course as a template and make your own changes.
- 02 Select one or more year groups for which your course is intended and also give your course a name. We recommend a descriptive name for easy filing. **NOTE: Course names are not visible to students.**



All custom courses created can be viewed and used by all teachers linked to the school's Mathletics account. Great for collaboration and sharing content.



The Course Creator tool is perfect when the default national courses are not suited. For example an after-school club, advanced groups or support classes.



# Courses

In **Courses** you can explore the many internationally aligned curricula available within Mathletics. You can also create your own completely bespoke course for use in your classroom.

## Create a Bespoke Course

- 03 Search for content to add to your course by **Activity Name**, **Topic**, or by **Outcome**. To preview any activity simply right-click it.
- 04 You can add in a new topic to the course or rename an existing one. To delete a topic, simply drag it to the bin.
- 05 Simply drag and drop your chosen activities into the central panel. You can also change the order of the activities in this way. To remove an activity, simply drag it into the bin. Once complete, click **Save Course** at the top of the screen.



Once you have completed and saved your new custom course, Mathletics will automatically add the related **Something Easier/ Harder** activities. If you wish, you can then edit these in the main Courses screen.




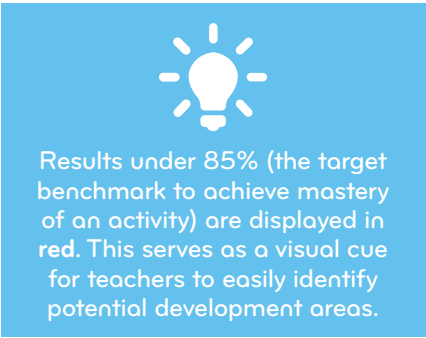
Custom courses are available for all teachers in the school to use and assign to their classes. They are stored in the main course lists, under the name of the school.

## Results


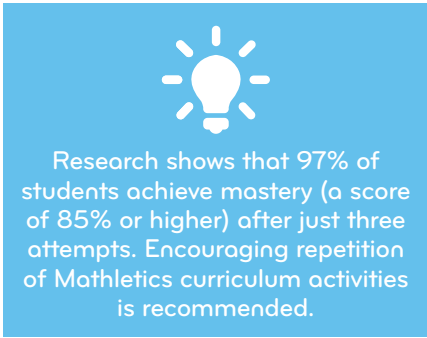
The **Results** area is one of the cornerstone tools for teachers. An integrated digital mark book and also a tool for setting targeted curriculum activities to individuals or groups of students. **Use real time results data to create bespoke learning pathways, based on individual student results, in just a couple of clicks.**

## Viewing Student Results

- 01 Select your class and/or group from the dropdown menus at the top of the screen. This will display the results data for that group of students.
- 02 Results for each student are displayed horizontally across the matrix. Data on this front page relates to results achieved in the **TEST** activities of each topic.
- 03 Click any one of the blue topic titles along the top of the results matrix to view results data for the individual activities within that topic.

[illegible]

Results under 85% (the target benchmark to achieve mastery of an activity) are displayed in red. This serves as a visual cue for teachers to easily identify potential development areas.



Research shows that 97% of students achieve mastery (a score of 85% or higher) after just three attempts. Encouraging repetition of Mathletics curriculum activities is recommended.

# Results

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## Setting Tasks

- 04 To assign a specific curriculum task for your students – click the blue arrow in the **Action Bar**, located along the top of the table.
- 05 Choose to assign the task to every student, or any student who has previously scored <85%. Alternatively, click on an individual cell in the table to set a task for a single student. **Set tasks will be indicated in gold.**
- 06 To ensure students are alerted to their assignments, set **Assigned Tasks** to "ON".
- 07 When they next sign in, students will receive a pop-up in their Student Console advising they have assignments to complete. **All other areas of Mathletics will be locked until they have done so.**



Hover over an individual result in the table – a pop-up will appear detailing the number of attempts a student has had at that activity and their latest score.



### MATHLETICS TEACHER APP AVAILABLE FOR MOBILE DEVICES

Ever leave school for the day and forget to set those homework tasks for your class? Or maybe you'd like to review your students' results on the commute home? Teachers can now take their access anywhere with the Mathletics app for selected mobile devices.

For more information visit [www.mathletics.com/mobile](http://www.mathletics.com/mobile)



# Results

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## Set levels in Live Mathletics

- 01 Live Mathletics has ten levels of questions, covering a range of mathematical concepts, from simple addition right up to algebraic equations. As a teacher, it is possible to limit the access of your students to lower levels of Live Mathletics to focus their attention on more ability-appropriate content.
- 02 A full overview of content in each of the ten Live Mathletics levels can be found on the Mathletics guides page – at [www.3plearning.com/training/mathletics/guides](http://www.3plearning.com/training/mathletics/guides).
- 03 Click the **Set Minimum Levels** button on the left of the screen to view the interface below. From here, simply use the radio buttons to select the minimum available level for each student.
- 04 Be sure to **SAVE** your settings before returning to the Results area. Students will now be locked out of any levels lower than the minimum level you have set.

Isaac Newton  
St Phillip's School

Class: Eagle Class Group: Advanced Group

Reports - Live Mathletics Report

Student Name	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Ahmed, Mohammed	<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"/>
Ball, Jenny	<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"/>
Davies, Sarah	<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"/>
Foxtro, Peter	<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"/>
Hill, Harry	<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"/>
Mount, Isabella	<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"/>
Peters, Bobbie	<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"/>
Smith, Jack	<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"/>
Thor, Jacki	<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

# Results

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## Viewing Assessment results



DIAGNOSE



REPORT



TARGET

- 01 The **Assessments** available in Mathletics not only give an automated diagnosis of each student, but also makes it possible to target development areas directly – by assigning relevant Mathletics content. This additional functionality is available within the RESULTS area of the Teacher Console.
- 02 Within the RESULTS screen, select **Assessment** from the dropdown menu top-left of the screen. The screen will update from curriculum results data to assessment results data.
- 03 Click an individual student's result within the matrix to view a detailed report of their results. Mathletics will display a breakdown of all questions answered (shown below), alongside the specific curriculum outcome/standard/ expectation addressed.
- 04 A list of relevant Mathletics activities is provided for each question. Simply click to instantly assign that activity to the student – **actively targeting individual weaknesses**.

Question	Outcome	Description	Result	Assignable practice activities	More practice activities
5	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✗	Area: Squares and Rectangles Area: Triangles Area: Right Angled Triangles	Area: Quadrilaterals
6	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✓	Decimal by Decimal	
7	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✗	Equal, Complement or Supplement?	
8	ACMNA 123	Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers	✓	Probability Scale	Possible Outcomes Simple Probability
9	ACMNA 124	Investigate everyday situations that use positive and negative whole numbers and zero. Locate and represent these numbers on a number line	✓	Simple Substitution	
10	ACMNA 125	Compare fractions with related denominators and locate and represent them on a number line	✗	Area: Squares and Rectangles Area: Triangles Area: Right Angled Triangles	Area: Quadrilaterals
11	ACMNA 127	Find a simple fraction of a quantity where the result is a whole number, with and without digital technologies	✓	Rotational Symmetry	
12	ACMNA 128	Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers	✓	Ratio Best Buy	Equivalent Ratios
13	ACMNA 129	Multiply decimals by whole numbers and perform divisions that result in terminating decimals, with and without digital technologies	✓	Find the Missing Number 1	Solving Simple Equations Solving More Equations Solve Equations: Add, Subtract Solve Equations: Multiply, Divide

For more information on Assessments  
visit [www.3plearning.com/mathletics/guides/assessments](http://www.3plearning.com/mathletics/guides/assessments)

# Reports

The Reports area of Mathletics is a hugely powerful tool for teachers and administrators. From a single screen, powerful diagnostic results data is available with just a few clicks. From tracking individual student progress to a whole-school snapshot, Reports puts key data right where you need it – at your fingertips.

## Generate your report

01

The Reports area can be accessed via your **Mathletics Teacher Console**. You can choose to have your data displayed in a number of different ways..

- "Individual student" or "Whole Class" view
- All classes for a teacher (administrators only)
- Whole year/grade view (administrators only)
- Whole school view (administrators only)



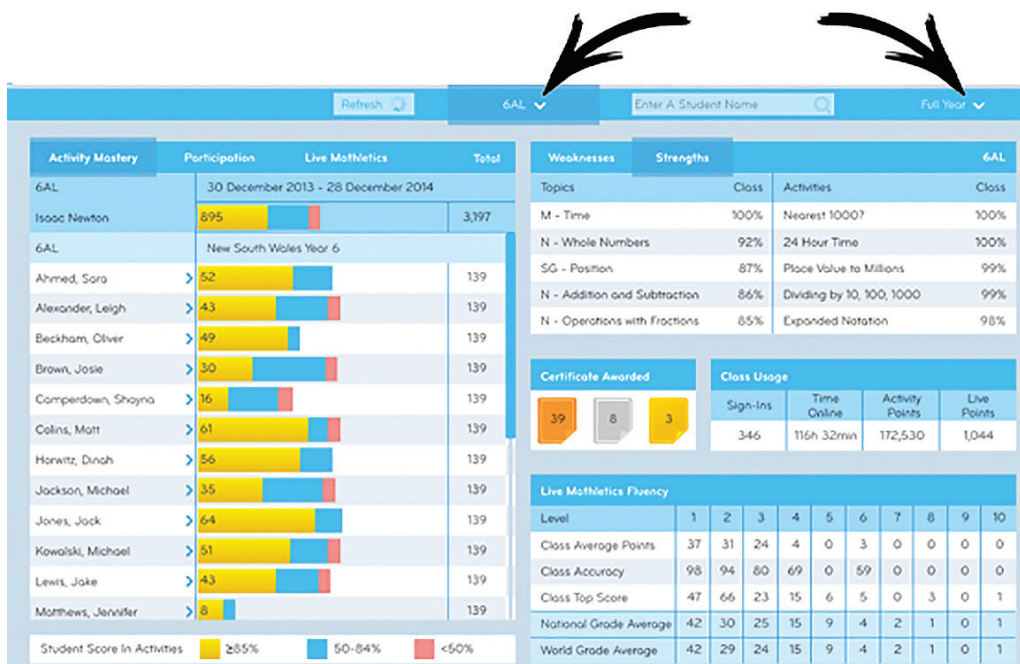
Prefer a video tutorial?

Head over to

[www.3plearning.com/mathletics/guides/reports](http://www.3plearning.com/mathletics/guides/reports)

02

To get started, simply select the student/class/classes you wish to view – along with a date range – from the menus at the top of the screen.



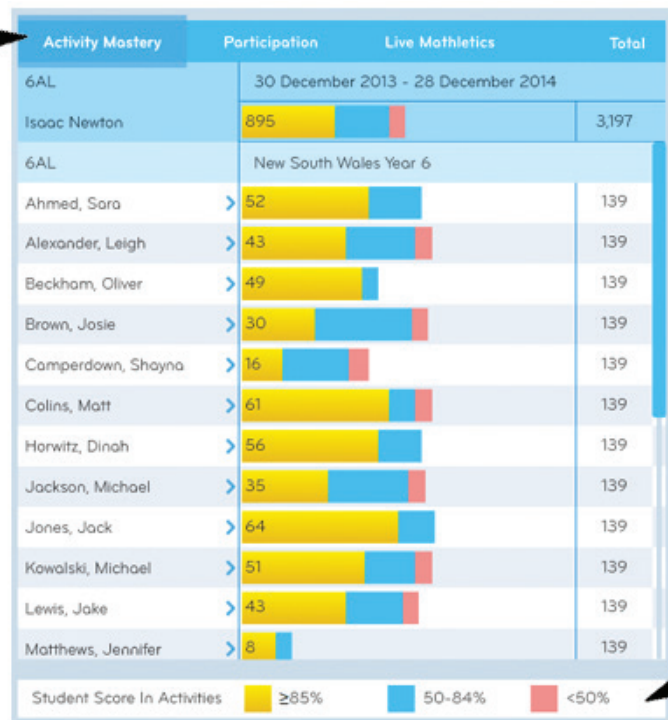


# Reports

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## Reading your report: Mastery

- 01 Regardless of the level of data you choose (student view/class view etc), the screen layout remains constant, split into five main data panels. The largest is the main left-hand panel.
- 02 By default, this panel is set to "Activity Mastery". This visually illustrates how far your students have progressed through their course – and how well they are doing. We call this their **Progress to Mastery**.
- 03 As your students complete curriculum activities within their course, their progress bar will expand across the table. In the example shown below, each student in this class has 139 activities available to them within their course.
- 04 Dependant on the students' scores, activities are counted within the **red**, **blue** or **gold** segment of the progress bar.
- 05 A **fully gold** progress bar indicates complete mastery of the course. The number of activities mastered so far is shown on the left of the bar.
- 06 For a more detailed view of any individual student's progress, simply click their name.



# Reports

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## Reading your report: Participation and Live

**01** Also available within the main left-hand panel, is a summary of participation for each student, as well as data from their time in Live Mathletics. To view this, simply slide the menu selector at the top of the panel.

**02** In the **Participation** view, data is displayed by student - showing points earned in the Mathletics curriculum area and the Live game - within the timeframe you have requested for the report. Details on the numbers of certificates earned are also displayed.

**03** To see a breakdown of any individual student's participation, simply click their name.

**04** The **Live Mathletics** panel displays data on students' accuracy and results across the game's ten levels.

**05** All data across both panels can be sorted into order by simply clicking the title of any of the columns.

This is hugely useful for viewing the top participating or performing students, great for weekly class Halls of Fame!

Activity Mastery

Participation

Live Mathletics

6AL

30 December 2013 - 28 December 2014

Student Name	Activity Points	Live Points	Bronze	Silver	Gold
6AL					
Colins, Matt	12,610	0	6	0	1
Jones, Jack	12,170	82	7	1	1
Morrison, Samantha	11,000	0	6	1	1
Mitchell, John	9,060	129	2	1	0
Horwitz, Dinah	8,570	0	1	0	0
Lewis, Jake	8,480	0	3	1	0
Ahmed, Sara	8,380	46	0	0	0
Potter, Harry	8,350	91	1	1	0
Kowalski, Michael	7,990	0	0	0	0
Alexander, Leigh	7,950	78	0	1	0
Nicholson, Joshua	7,500	96	1	0	0
Brown, Josie	7,320	346	1	0	0

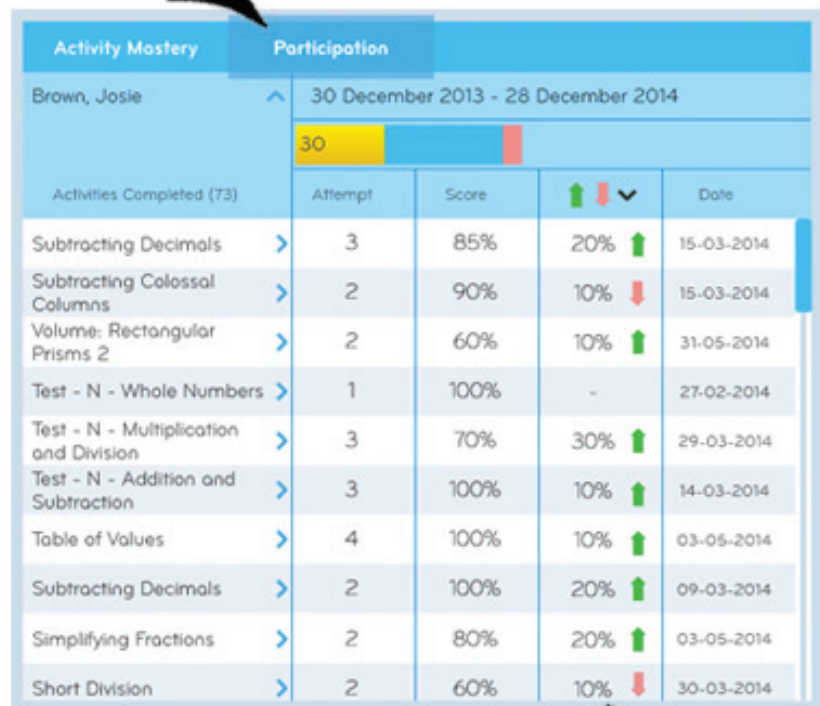
# Reports

The Reports area of Mathletics is a hugely powerful tool for teachers and administrators. From a single screen, powerful diagnostic results data is available with just a few clicks. From tracking individual student progress to a whole-school snapshot, Reports puts key data right where you need it – at your fingertips.

## Reading your report: Improvement

- 01 When viewing a report at an individual student level, hugely powerful data is available to track the **longitudinal improvement** across a single curriculum area.
- 02 In the main left-hand data panel, slide the menu bar to **Participation**. (If you are viewing a report for a whole class, click an individual student's name to view their participation and improvement data).
- 03 All curriculum activities completed by the student within the selected timeframe are now shown on screen. The most recent score in each activity is displayed.
- 04 For activities that have been completed more than once, an overall improvement statistic is also available, alongside a red or green arrow
- 05 All data across both panels can be sorted into order by simply clicking the title of any of the columns.

This is hugely useful for viewing the most improved students, great for weekly class Halls of Fame!



Activity Mastery	Participation			
Brown, Josie	30 December 2013 - 28 December 2014			
	30			
Activities Completed (73)	Attempt	Score	Improvement	Date
Subtracting Decimals	3	85%	20% ↑	15-03-2014
Subtracting Colossal Columns	2	90%	10% ↓	15-03-2014
Volume: Rectangular Prisms 2	2	60%	10% ↑	31-05-2014
Test - N - Whole Numbers	1	100%	-	27-02-2014
Test - N - Multiplication and Division	3	70%	30% ↑	29-03-2014
Test - N - Addition and Subtraction	3	100%	10% ↑	14-03-2014
Table of Values	4	100%	10% ↑	03-05-2014
Subtracting Decimals	2	100%	20% ↑	09-03-2014
Simplifying Fractions	2	80%	20% ↑	03-05-2014
Short Division	2	60%	10% ↓	30-03-2014



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## Reading your report: Strengths & Weaknesses

- 01 Regardless of the level of data you choose (student view/class view etc), the screen layout remains constant. The right-hand side of the screen includes a hugely powerful diagnostic panel – highlighting **Strengths and Weaknesses** across one or a number of students.
- 02 Strengths and weaknesses are automatically diagnosed and calculated based on real-time results data. Information displayed in the table relates only to the student or students included in your report. For example, a whole-class report or an individual student report.
- 03 Strengths and weakness can be viewed in the context of an entire curriculum topic, or an individual activity. They are designed as a diagnostic guide to aid teaching.



Weaknesses	Strengths	6AL	
Topics	Class	Activities	Class
M - Time	100%	Nearest 1000?	100%
N - Whole Numbers	92%	24 Hour Time	100%
SG - Position	87%	Place Value to Millions	99%
N - Addition and Subtraction	86%	Dividing by 10, 100, 1000	99%
N - Operations with Fractions	85%	Expanded Notation	98%

Certificate Awarded

39

8

3

Class Usage

Sign-Ins	Time Online	Activity Points	Live Points
346	116h 32min	172,530	1,044

Live Mathletics Fluency

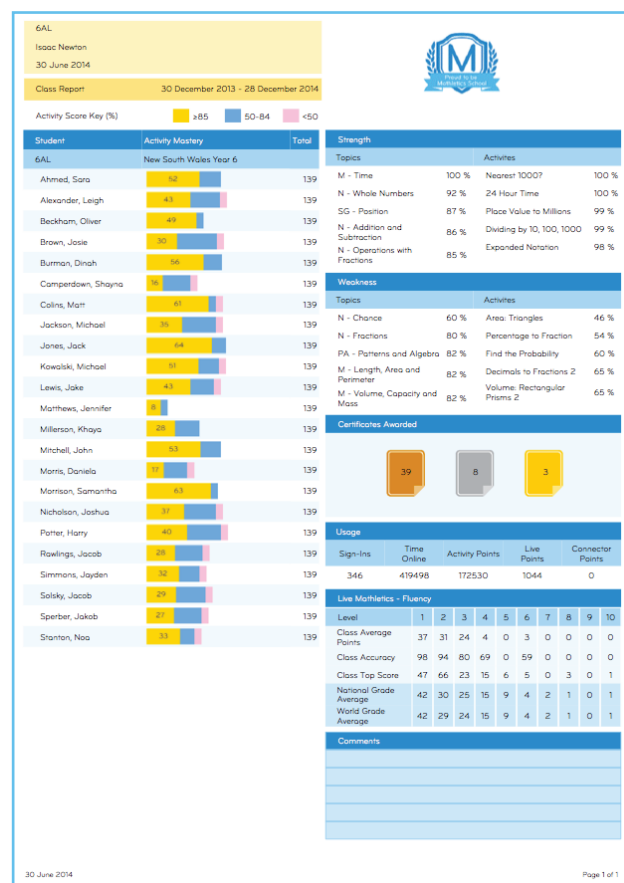
Level	1	2	3	4	5	6	7	8	9	10
Class Average Points	37	31	24	4	0	3	0	0	0	0
Class Accuracy	98	94	80	69	0	59	0	0	0	0
Class Top Score	47	66	23	15	6	5	0	3	0	1
National Grade Average	42	30	25	15	9	4	2	1	0	1
World Grade Average	42	29	24	15	9	4	2	1	0	1

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## Printing your report

- 01 Need a paper copy of a report? Not a problem. A ready-made printable report is just one click away. Simply generate the report you wish to print, ensuring the student/class data and timeframe are correct on screen for your requirements.
- 02 Click the **PRINT** icon at the top of the screen. Your report will download automatically to your computer in PDF format for easy printing/saving.
- 03 The printed reports also include a useful “comments” section – ideal for your own notes, or for parent/teacher communication.



Target weaker areas. Within the “Activity Mastery” panel, when viewing a single student’s data, click any activity to ASSIGN that task for a student to complete.



All data in Reports is live. Click the “Refresh” button in the blue menu bar at any time to include any data from activities your students have just completed, in real time.



Track your students’ results across the levels of Live Mathletics using the panel bottom-right of the screen. Compare with national and global averages.

# Assessments

Assign one of over 250 assessments to your students – each one aligned to the specific requirements of a range of international curricula and examinations. Diagnose individual weaknesses and assign targeted activities accordingly. A powerful tool for diagnostics, benchmarking and tracking improvement.

## Assign an assessment

- 01 The Assessments area can be accessed via your **Mathletics Teacher Console**. Over 250 are available, the first step is to select one and assign to it to your students.
- 02 Select your required class from the menu at the top of the screen. Use the two dropdown menus above the list of available assessments to filter the selection to those designed for your local curriculum requirements, and the year/grade of your students.
- 03 Click the **Schedule Assessment** button and nominate the student(s) who will be taking the assessment. Follow the simple on-screen prompts to set your required time and duration.
- 04 When your students sign in during the nominated time period, they will receive an on-screen notification that they have an assessment to complete.



Prefer a video tutorial?

Head over to  
[www.3plearning.com/mathletics/guides/assessments](http://www.3plearning.com/mathletics/guides/assessments)

Assessments	Number of Students	Results
Calculator Practice (Medium)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
Calculator Practice (Medium)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
Non-Calculator Practice (Easier)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
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Non-Calculator Practice (Medium)	Scheduled: 0 Completed: 0	Avg Score: 0% High Score: 0% Low Score: 0%
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## Taking an assessment

- 01 Students will receive an alert in their console when you have assigned them an assessment – similar to when you assign a regular curriculum practice activity.
- 02 Unlike a Mathletics curriculum activity, all students must complete the same set of questions (however the answer order is random for each student). Questions can be answered in any order, and reviewed before completing the assessment.
- 03 Students can opt to leave the assessment at any time. Their time remaining to complete the questions will be frozen until they return – provided this is within the window of time you have assigned.
- 04 Many assessments include curriculum outcome/standard/expectation codes in the top-right corner, aligned to the relevant local curriculum.

**ASSESSMENTS** Curriculum Test 1

ACMMG 245 (Year 10)

Rose was at an air show watching a plane fly by at a constant height. If the angles of elevation of the plane when she started and finished watching it were  $60^\circ$  and  $25^\circ 30'$  respectively, how far did the plane fly between these two points? Answer to the nearest whole metre.

800 m

$d$  m

$d = 1215$  m

Time Remaining: 30:00

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## Viewing results – whole class



DIAGNOSE

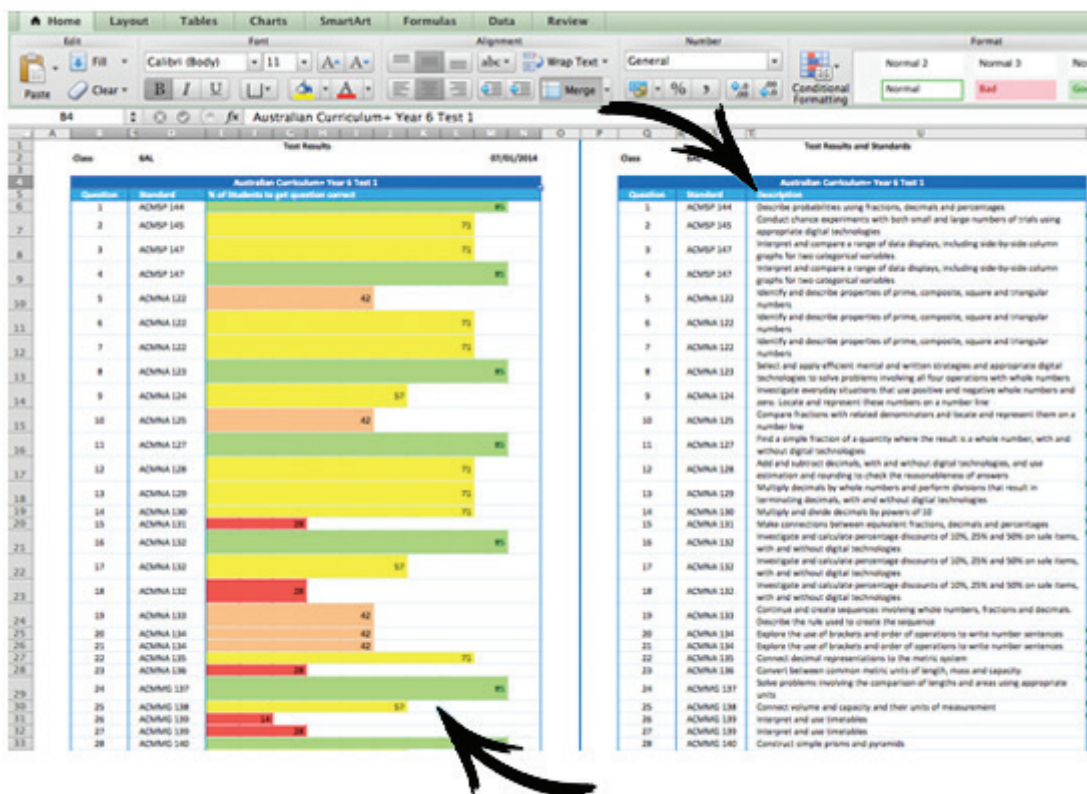


REPORT



TARGET

- 01 Once students have begun completing their assigned assessments, you will receive a "Results Available" notice within your Assessments console.
- 02 Click the View Results button to access a summary of all student results. For most assessments, an additional View Results by Standard button is available. This will download an automated report in spreadsheet format to your computer (shown below).
- 03 This report illustrates visually those curriculum outcomes/ standards/expectations that your students may be struggling with – based on their results data – along with a list of Mathletics course activities to specifically support them in these areas.
- 04 This information can be used to diagnose and target the specific needs of your class.





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## Viewing results – individual students



DIAGNOSE



REPORT



TARGET

- 01 Assessments not only gives an automated diagnosis of each student, but also makes it possible to target development areas directly – by assigning relevant Mathletics content. This additional functionality is available within the RESULTS area of the Teacher Console.
- 02 Within the RESULTS screen, select **Assessment** from the dropdown menu top-left of the screen. The screen will update from curriculum results data to assessment results data.
- 03 Click an individual student's result within the matrix to view a detailed report of their results. Mathletics will display a breakdown of all questions answered (shown below), alongside the specific curriculum outcome/standard/ expectation addressed.
- 04 A list of relevant Mathletics activities is provided for each question. Simply click to instantly assign that activity to the student – **actively targeting individual weaknesses**.

Isaac Newton Hogwarts School for Wizards						
Results set work from results		Angles, Laila - Australian Curriculum (Test A) (2 Jul 2014)				
Question	Outcome	Description	Result	Assignable practice activities	?	More practice activities
5	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✗	Area: Squares and Rectangles Area: Triangles Area: Right Angled Triangles		Area: Quadrilaterals
6	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✓	Decimal by Decimal		
7	ACMNA 122	Identify and describe properties of prime, composite, square and triangular numbers	✗	Equal, Complement or Supplement?		
8	ACMNA 123	Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers	✓	Probability Scale		Possible Outcomes Simple Probability
9	ACMNA 124	Investigate everyday situations that use positive and negative whole numbers and zero. Locate and represent these numbers on a number line	✓	Simple Substitution		
10	ACMNA 125	Compare fractions with related denominators and locate and represent them on a number line	✗	Area: Squares and Rectangles Area: Triangles Area: Right Angled Triangles		Area: Quadrilaterals
11	ACMNA 127	Find a simple fraction of a quantity where the result is a whole number, with and without digital technologies	✓	Rotational Symmetry		
12	ACMNA 128	Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers	✓	Ratio Best Buy		Equivalent Ratios
13	ACMNA 129	Multiply decimals by whole numbers and perform divisions that result in terminating decimals, with and without digital technologies	✓	Find the Missing Number 1		Solving Simple Equations Solving More Equations Solve Equations: Add, Subtract Solve Equations: Multiply, Divide



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Taking the same assessment at multiple points across the school year provides excellent quantitative evidence of student improvement.



You can opt to PREVIEW any assessment prior to assigning it, to check its suitability for your students.



You can choose to PRINT any assessment to be completed by students offline. Note: assessments must be completed online for diagnostic data to be generated.



Over 250 assessments are available.  
All Mathletics teachers can access the complete selection, regardless of location or the age of their students.

Visit [www.3plearning.com/mathletics/assessments](http://www.3plearning.com/mathletics/assessments) for a full list of the assessments available.

The library of Mathletics **eBooks** is a huge additional teaching and learning resource to the online curriculum area. Building to several thousand printable pages, each year/grade level has several eBooks available to download.

## Accessing and using eBooks

- 01 Select the year/grade level you wish to view from the blue navigation bar.
- 02 All available **eBooks** are displayed on the left of the screen. Click any eBook to view its contents. Hovering over will display the option to access the full Student or Teacher edition.
- 03 You can choose to download just the individual chapters/pages you need for your lesson on the right of the screen.



Each eBook targets a specific strand of mathematics - beginning with an introduction and progressing to more advanced applications.



The extensive library of eBooks have been produced by the team of educational publishers at Mathletics. They build into a strong and important offline component of the overall Mathletics platform.



Students at Secondary/High School level also have direct access to eBooks via their Student Console.

# Lessons

In **Lessons** you can create rich multimedia lesson plans. You can even share the lessons with colleagues. These lessons are perfect for **one-to-one teaching** or **Interactive Whiteboard** use in a classroom.

## Create Your Lesson

- 01 Use the search fields at the top of the screen to explore all related content within Mathletics – “fractions” for example.
- 02 Drag your selected items into the **Lesson Timeline**. Simply drag and drop to rearrange the order of your lesson, or click the individual components to delete.
- 03 Once you've created a Lesson, click **play** and the lesson will open in a new browser tab.



**FILTER** your search using the topic menu to the left of the screen.



**SAVE** your lesson. We recommend using a name that will allow for easy referencing at a later date. You can also assign a recommended year/grade if you wish for your own reference.



**PREVIEW** any item before using it by clicking the menu arrow on each item.

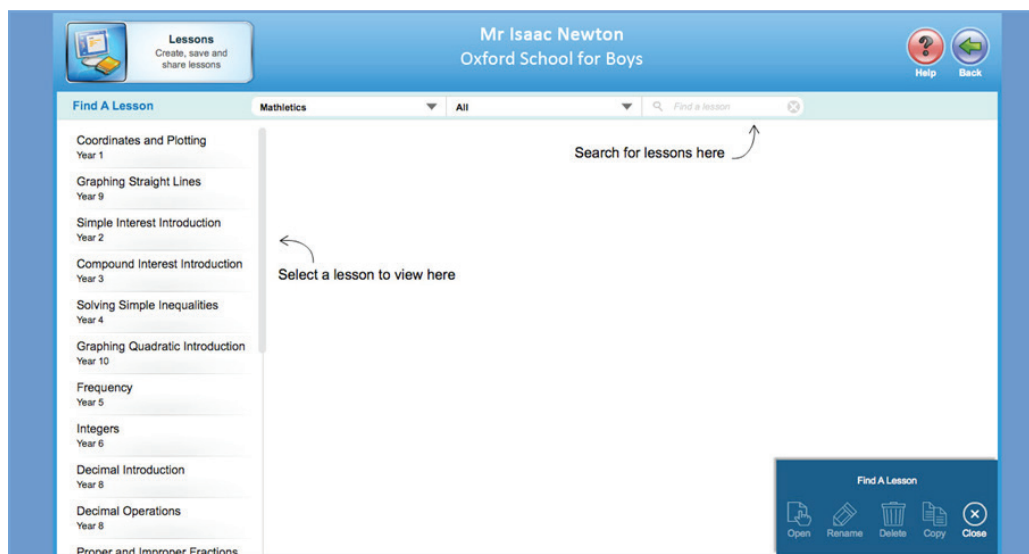


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## Open & Share Lessons

- 01 From the main Lessons screen, select **Find**. This will open the window below.
- 02 From this screen you can find all saved lessons linked to your school's account. Simply click a lesson on the left to view it.
- 03 Lessons appear in this list to preview. You can also open a copy of a colleague's Lesson to play – or edit. **NOTE: Any changes you make to a colleague's Lesson will be saved to your list as a duplicate copy.**



A number of sample lessons are also available. Simply select **Mathletics** from the drop-down menu at the top of the screen.



All lessons created within the school are available to all teachers, making it easy to share successful & effective lessons with your colleagues.



For more information on any area of Mathletics,  
speak to your school's account manager - or  
visit our dedicated training and support portal  
for teachers at

**[www.3plearning.com/training](http://www.3plearning.com/training)**