Welcome to the 4.6 million!
Mathletics is a global community of 4.6 million students in over 20,000 schools and homes around the world – and now you are a part of the community. This guide will help you get going. It all starts right here.

Secondary school is a whole new world and a new school demands an older, more study-focused interface.

Secondary Mathletics is purpose-built to provide you with the study tools and curriculum resources you need.

Take control of your learning...

Learn
Students have access to a full set of curriculum activities, aligned to the various maths curricula of the UK, backed up by interactive, video and print-based support materials.

Play
Enter the fast-paced and exciting world of LIVE Mathletics! Get matched against students in your own class or on the other side of the world! Test your mental mathematics skills...are you fast enough?

Review
Wouldn’t it be great to individually diagnose your students’ learning gaps and target them with adaptive content? Yes, we thought so too. Explore Assessments within Mathletics.
Mathletics has two Student Consoles – the version you see is dependent on your year/grade level. Students in Primary year groups will receive one interface and students in Secondary/High School year groups will receive another, with additional advanced features.

This guide is designed for students using the Secondary/High School student console.

### Secondary Mathletics

**01** Navigate around the three key areas of Mathletics using Learn, Play and Review.

**02** Track your progress, achievements, certificates & points earned through My progress.

**03** Create your own learning space by editing your profile by building an avatar or changing your background.

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**In Learn** students have access to their curriculum content, backed up by interactive, video and print-based support materials.

Select a topic to find the related activities, videos and interactives.

The **Play** area targets maths fluency, with the famous Live Mathletics.

Student can access assessments assigned by their teacher in the Review section.

My progress gives students an overview of their strengths and weaknesses.

Students can create their own learning space by building an avatar or changing their background.

Use search to find specific content – for example “fractions”. All relevant content, will be displayed.

The introductory video gives students a tour of Mathletics.

My progress shows students an overview of their strengths and weaknesses.

Students can keep up to date with the Mathletics Hall of Fame.

The traffic light system allows students to track their progress by easily identifying those topic areas still to complete or needing some additional study or support.
The Learn area is the central point for all of your curriculum content.

Select a topic to find the related activities, e-books, videos and interactives.

Four different types of content are available – Targeted individual ACTIVITIES (banks of questions, with pre and post assessment), digital eBOOKS, supportive INTERACTIVE widgets and a bank of VIDEO support tutorials.

Looking for specific content? Use the SEARCH bar to enter a keyword – for example “fractions”. All relevant content, across all media types, will be displayed.

Videos – a series of great visual explanations of mathematical concepts, using the Interactives as teaching examples.

Interactives - a series of great hands-on interactive explanations that are designed to give you a deeper understanding of mathematical concepts.

Printable eBooks – a series of great digital workbooks that are fully matched to the online Mathletics content.
Mathletics For Secondary Students

Mathletics curriculum activities

01 Each activity contains ten randomly generated questions (slightly more or less for an "Are You Ready?" or "TEST" activity.) Enter your answer and click Submit for the next question.

02 Each activity (excluding “Are You Ready?” or “TEST” activities) has a great interactive support area for extra help. Simply click the 'i' icon.

03 The Curriculum Support Area gives a step-by-step explanation of the activity you are working on. Where applicable, you can control the difficulty level of the examples using the buttons at the bottom of the screen. (Coming soon to tablet)

Click on the question numbers on the left-hand side to see your answers – or review any mistakes you may have made.

Curriculum Support Area gives a step-by-step explanation of the activity you are working on.

Video Support gives an explanation of the concept you are working on.

Concept Videos are a series of great visual explanations of mathematical concepts.

Number Pad for ease of answering questions on a tablet.

www.mathletics.com
01 After you have completed all ten questions, you will see your Results Screen. Click on the question numbers on the left-hand side to see your answers – or review any mistakes you may have made.

The questions in the Mathletics Curriculum are randomly generated and different each time. It is recommend you repeat each activity until you achieve your Gold Medal.

Each time you beat your previous high score at an individual activity, you will be awarded 10 extra credits to spend on your avatar in the Mathlete Shop.
Mathletics Calculator

01 Sliders

Dynamically manipulate your expressions by adding a slider! Type a parameter in place of a number in your expression and click the button to add a slider. Drag the slider to change the value of the parameter or press the play button and we will slide it for you.

02 Tables of Data

To create a table of data, click the “Add Item” button and select table. You can convert an existing expression into a table in “Edit Mode” by clicking the “Convert to Table” icon.

03 Restrictions

You can restrict the domain or range of your expressions by adding the restriction onto the end of the expression:

- $y=x^2\{ |x| < 2\}
- y=\sin(x)\{ 0 < x < \pi \}$

04 Inequalities

Use < and > for strict inequalities (dashed line) and ≤ or ≥ for non-strict inequalities (solid line). You can even shade between two curves:

- $y < 2x$
- $0 \leq y \leq \sin(x)$
Mathletics, you can challenge other students to real-time races that will boost the speed and accuracy of your mental mathematical calculations! You can choose to compete against students from right across the world, or from your own school or class. Points and credits are awarded for correct answers and beating your high score.

**Live Mathletics**

01 Live Mathletics games have ten levels of difficulty, including questions across a wide range of mathematical topics.

02 Use the horizontal menu at the top of the screen to select a level and pull down to see the types of questions included. You can even practice before your play! Remember, the level you leave selected will be the level at which you enter the game.

03 Your speed & accuracy at each of the ten levels will give you a ranking from Raging Rookie to Human Calculator. In random-match games, you will only be matched against other similarly ranked players – so you always have a fair chance!

**TRACK YOUR RESULTS**

You can track your results by clicking the button at the top of the screen. You will be able to view your top score, accuracy and rank for each gaming level. Can you beat your high score?!?

**SCORING POINTS**

Each correct answer earns you one point for your weekly total. A bonus level is available with double points. Your bonus level depends on your previous results and will be indicated by a gold star at the top of the screen.
Mathletics For Secondary Students

In **Live Mathletics**, you can challenge other students to real-time races that will boost the speed and accuracy of your mental mathematical calculations! You can choose to compete against students from right across the world, or from your own school or class.

Points and credits are awarded for correct answers and beating your high score.

### Starting a game

01 **RANDOM-MATCH GAMES**

There are four game types available, **World Challenge**, **School Challenge** and **Class Challenge** (where you are randomly matched with up to three other players) and also **Computer Challenge** where you can warm up your skills against the computer. Click your chosen game type followed by the GO button.

02 **CHALLENGE GAMES**

Alternatively you can challenge specific players to a game. On the left of the screen is a live feed showing who's online in your school. You can choose to challenge up to three other online players to a game by clicking on their "Ready" button. The green GO button will then change to CHALLENGE. Your schoolmates will have 15 seconds to accept or decline the match before the game begins.

03 **SHADOW MODE GAMES**

Shadow Mode allows students within Live Mathletics to challenge other students in their class who are offline. If a student is not currently within the Live Mathletics area (or offline completely), they will be identified with a shadow icon. These students can also be challenged to a game, during which Shadow Mode will take over and play as the offline student – answering questions at the same rate as their current high score. For example, if an offline student is challenged to a Level 1 game and their current high score at that level is 50, Shadow Mode will answer 50 questions correctly during that game.
In **Live Mathletics**, you can challenge other students to real-time races that will boost the speed and accuracy of your mental mathematical calculations! You can choose to compete against students from right across the world, or from your own school or class.

**Points and credits are awarded for correct answers and beating your high score.**

### The live game

1. **Once a Live Mathletics game begins, your avatar and up to three other players will display in the left of the screen. You could be matched with another student on the other side of the world, or just around the corner!**

2. **Your goal is to correctly answer as many questions as you can in 60 seconds.** Be careful though, three incorrect answers and you'll strike out – game over! You will be able to follow your progress as your bar races across the screen – keep an eye out for your opponents too!

3. **When the race finishes, you will be able to review all of your answers and your final position will be confirmed.** Didn’t reach the finishing line first? Don’t worry, there’s always next time!

### Earning Points

Live Mathletics is a great way to add points to your total and earn your weekly certificate. Each correct answer earns **1 point**. Enter a race in the bonus level and this will double to **2 points per correct answer**.

### Earning Credits

Win your race and you will be awarded **5 extra credits** to spend in the Mathlete Shop. Keep an eye out for a vertical red line appearing in the race area – this is your current high score. Beat this and you will be awarded with **10 extra credits**.
The range of online assessments within Mathletics has been designed by our maths experts to specifically target your maths curriculum. The next-generation assessments deliver an authentic, engaging experience for students and provide teachers with insightful, actionable results to bridge the gap between assessment and instruction.

**Assessments**

01. You will receive an alert in their console when your teacher has assigned you an assessment – similar to when you’re assign a regular curriculum practice activity.

02. Assessment questions can be answered in any order, and reviewed before completing the assessment.

03. You can opt to leave the assessment at any time. The time remaining to complete the questions will be frozen until you turn – provided this is within the window of time your teacher has assigned. Many assessments include curriculum outcome/standard/expectation codes in the top-right corner, aligned to a the relevant local curriculum.
My progress

01 My progress gives an overview of your entire course, where you can view and access your results for each topic and activity.

02 The simple and intuitive traffic light system, with the four donut graphs allow you to track your progress and easily identify those topic areas still to complete or needing some additional study or support.

03 Keep track of your points this week and try to earn 1,000 points to gain your certificate. View and print the certificates you have earned in My certificates.

04 UNICEF points are earned across the live game and curriculum activities by answering questions correctly. We turn those points into cash and donate it to fund our projects.
By using Mathletics regularly, you will be rewarded with points that can earn you weekly certificates. These are stored in your my certificates area within the Student Console.

Aim to earn 1,000 points per week to gain your certificate.

**My certificates**

01. Earning a bronze certificate will also award you 100 extra credits to spend in the Mathlete Shop. Silver certificates are worth 150 extra credits and gold certificates are worth 200 extra credits.

02. Your weekly points are displayed in the top bar of the Mathletics Interface. Once you reach 1,000 points you will be awarded with a bronze certificate. Once in My progress, click the My certificates button to view your certificates.

03. Collect 5 bronze certificates and you will be awarded a silver certificate. Collect 4 silvers for a gold certificate. You can only earn one certificate per week, so be sure to use Mathletics regularly!

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**unicef**

Turning schoolwork into schools...
Students around the world are helping, just by using Mathletics. UNICEF points are earned across the live game and curriculum activities by answering questions correctly. We turn those points into cash and donate it to fund our projects. Every 250,000 UNICEF points earned in Mathletics = another $1 donation.

Find out more [www.mathletics.com/UNICEF](http://www.mathletics.com/UNICEF)
Create your own learning space by editing your profile to build an avatar or change your background.