

max
maths
adaptive practice



User Guide



New: Max Maths Adaptive Practice

Improve ability and results with our unique e-learning platform for mathematics

<http://maxmaths.education/>

Welcome to Max Maths

Max Maths Adaptive Practice is designed for students at upper-primary and secondary level. It can be used flexibly by teachers as a blended learning tool, or as a stand-alone resource. The material has been designed to support schools that are following the Cambridge International Examination or International Baccalaureate syllabuses.

Max Maths Adaptive Practice personalises the learning of each student by recognising knowledge gaps and repeated errors, and provides feedback and support to help correct mistakes. The entire programme contains over 40 interactive maths books with 100,000 questions and explanations for the leading international curricula.

Max Maths Adaptive Practice offers:

- A powerful platform for assigning practice, tracking performance, and evaluating results of entire classes or individuals
- Over 100 exercise types and calculation tools for answering and visualising problems that mirror work traditionally done on paper
- A substantial bank of hints, mathematical terminology, examples and full explanations to support students in their work
- The flexibility for teachers to select and assign exercises around a core text, or to create new material tailored to students' needs in print or digital format
- Motivation to improve and complete assignments through the use of coin banks and congrats along the way

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How Does Max Maths Work?

Max Maths Adaptive Practice uses the award-winning technology created by bettermarks GmbH. For nearly a decade, schools across the world have benefited from this unique platform developed by teachers, mathematicians, academic educationalists and software specialists.

Max Maths Adaptive Practice works by tracking everything students are doing and on the basis that learning from mistakes is crucial. It cleverly analyses actions and choices, and provides hints and further practice that suit each individual learner.

It not only guides learners through exercises that become gradually more difficult, but it can also tell if a student has not fully grasped a concept, or if they simply haven't read the question correctly. In this way every student learns at their own pace, and receives the exact support they need.

Teachers can assign exercises to complete in class, or at home, and get the results at the click of a button. No collecting, no marking – just results. They can then analyse the performance of an entire class, or individual learners, to inform how they should follow up and plan the next lessons.



Teach

Introduce the topic in the lesson as you usually would.

Assign

Give exercises to your students.

Work

The students work through the exercises on the computer.

Evaluate

Evaluate the results with the click of a button.

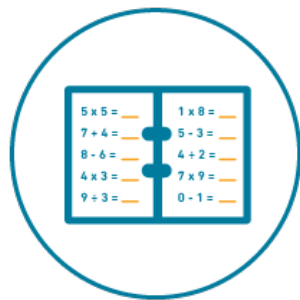
Follow up

Repeat material or move on to the next topic.



Using Max Maths

Max Maths Adaptive Practice can be used flexibly by teachers in a variety of different learning environments, and to complement existing programmes. It can be used as a stand-alone teaching tool through accessing the Library of over 40 textbooks, or to supplement a core text or the teacher's own materials.



Textbook

Max Maths Adaptive Practice offers introductions to new topics and exercises to practise prerequisite skills.

Exercise Book

Max Maths Adaptive Practice gives you access to over 100,000 questions, and a wide range of exercise types.

Worksheet Creator


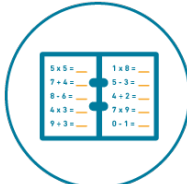


Max Maths Adaptive Practice provides ready-made worksheets alongside tools to create your own.

Interactive Whiteboard

Max Maths Adaptive Practice is well suited to displaying content on an interactive whiteboard.

Depending on the resources and computer equipment available to your students in school and at home, Max Maths Adaptive Practice content can be used in different ways to deliver instruction, practice, and testing.

The following chart shows how Max Maths Adaptive Practice can be used effectively in various situations:

	 School textbook	 Exercise book	 Worksheets	 Interactive Whiteboard
One computer per student in the class	✓	✓	✓	
Several students share a computer in the class	✓	✓	✓	
Students have a computer at home	✓	✓	✓	
Interactive whiteboard in the classroom	✓			✓

Max Maths Evaluation Tools

Students who miss a lesson, or forget something, can quickly fall behind. Lacking the basics, they have no foundation for the next topic. How can you learn to calculate interest without a grasp of percentages? How can you learn to take a square root if you don't know what "to square" means?

Max Maths Adaptive Practice detects these kinds of knowledge gaps from the patterns of mistakes made, and gives students a series of exercises that teach the missing skill. Students also have access to a full glossary to check their understanding of instructions and terminology. Importantly, teachers can then analyse consistent errors for both groups and individuals at the click of a button.

The **Max Maths Teacher Centre** displays all student results in clear and easy to understand reports. At a glance, you can see who completed the exercises, how well they did, and where each individual student encountered problems. You can decide for yourself how intensively to use the reports - you can even view each student's exact input for each exercise if you wish.

Date	Activity	Score	Icons
03/02/2014	Complete a shape so that it has line symmetry	90%	🔍 📌
23/01/2014	3.2 - 1 Describe the transformation of a shape with the corresponding transformation of points Book "Angles, Basic Constructions and Symmetry"	80%	🔍 📌
12/01/2014	4.2 - 1 Determine the position of the line of symmetry Book "Angles, Basic Constructions and Symmetry"	100%	🔍 📌
08/01/2014	3.2 - 1 Describe the transformation of a shape with the corresponding transformation of points Book "Angles, Basic Constructions and Symmetry"	60%	🔍 📌
05/12/2013	4.2 - 1 Determine the position of the line of symmetry Book "Angles, Basic Constructions and Symmetry"	80%	🔍 📌
14/11/2013	Recognise symmetry	100%	🔍 ⭐

Activity



Date	Score	Points	Icons
03/02/2014	20%	2/10 pts.	🔍 📌
02/02/2014	100%	10/10 pts.	🔍 📌
02/02/2014	100%	10/10 pts.	🔍 📌 ⭐
02/02/2014	60%	6/10 pts.	🔍 📌
02/02/2014	10%	1/10 pts.	🔍 📌
01/02/2014	0%	0/10 pts.	🔍 📌

Results



Exercise	Score	Icons
Exercise 1	90%	🔍
Exercise 2	68%	🔍
Exercise 3	85%	🔍
Exercise 4	35%	🔍
Exercise 5	90%	🔍

Difficulties

Activating Max Maths

Once a school or institution has purchased *Max Maths Adaptive Practice* they will be supplied with TWO access codes: one for teachers and administrators, and one for students.

To access Max Maths go to:

<http://maxmaths.education/>

Setting-up Classes and Passwords

- 1 If this is your first time using Max Maths as a teacher, you will be asked to create a new user account with a user name and password, and asked to enter your institutional teacher access code.
- 2 Create a class and give your class a name (you can create as many classes as needed). Give your students the student access code. This will be the same code for every student at your school.
- 3 Tell your students to create a new user account with a user name and password.
- 4 Tell your students to 'connect' to your class.
- 5 If a student forgets their password, the teacher will need to reset it to a temporary one from the 'Change Password' link in the navigation. Students will be prompted to reset their password to something memorable when they next log in.

← Connect with class

+ Create new class

Class Actions

Change this class name

Disconnect class

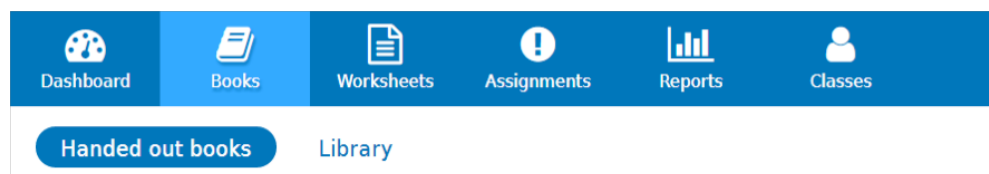
Student Actions

Remove student(s)

Change password(s)

Assigning Work

Max Maths navigation is simple and intuitive. The platform has over 40 books in the Library. You will need to decide which texts you will work from for each of your classes.

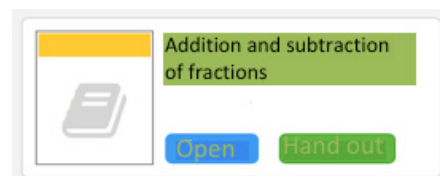


After creating a class, you will then need to 'hand-out' the text to your class, or simply 'open' the book if you are using it on a whiteboard.

Once students have the text to work from, you can then:

- Work through a topic introduction in class
- Assign or do the pre-requisite exercises together
- Assign additional exercises to do in class or as homework
- Assign a pre-made worksheet, or your own custom-built worksheet

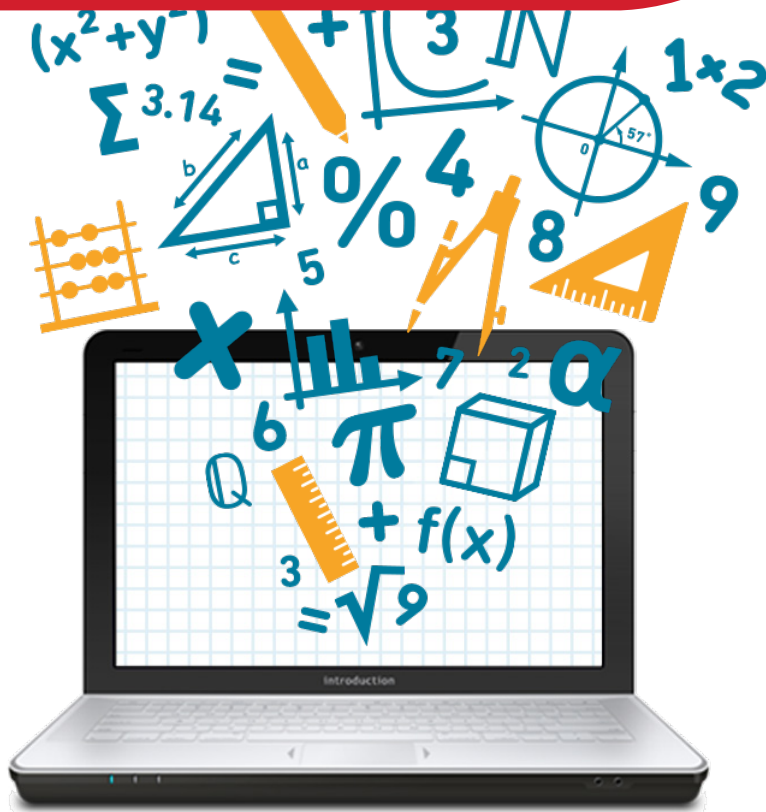
Reporting is easy. Click on the button to see who has completed their work, the results, and who needs more help and more practice.



Technical Requirements

Max Maths Adaptive Practice can be used on a PC, laptop, interactive whiteboard or a mobile device making it a powerful, fully effective learning tool for the classroom and learning on-the-go.

Schools and teachers are encouraged to carefully check the technical requirements for Max Maths prior to purchase.



Hardware

Either:

1. Desktop/Laptop/Notebook/Convertible

- 1GB of RAM
- 2GHz CPU
- Minimum display resolution of 1024x600 (recommended: 1024x768 or better)
- Mouse and keyboard operation only – touch not fully supported

Or:

2. Mobile Device (iOS / Android):

- 1GB of RAM
- 1.2 GHz Dual-core-CPU
- Minimum display resolution of 1024x600 (recommended: 1024x768 or better)
- Touch-operation only – mouse and keyboard not fully supported

Operating System

One of the following:

- 1 Microsoft Windows: 7 or newer
- 2 Apple macOS: OS X Yosemite (10.10) or newer
- 3 Google Android: 4.4 or newer (the Max Maths App from the Play Store is required)
- 4 Apple iOS: 7 or newer (the Max Maths App from the App Store is required)

Connectivity

Max Maths is an online product and requires the following dedicated bandwidth:

- At least 6 Mbps for a class using Max Maths in the browser (16 recommended)
- At least 2 Mbps for a class using Max Maths on a mobile device (6 recommended)

Pricing and Ordering

Max Maths Adaptive Practice works on an annual subscription model with an unlimited number of users per institution and location. If your institution has multiple locations, you will need to purchase licences for each site.

The pricing varies according to your syllabus and the number of years covered – the chart below outlines the pricing for the Cambridge International Examination and International Baccalaureate syllabuses.

Subscriptions

Cambridge International Examinations

Cambridge Primary	Year 6 only	£120 per year
Cambridge Checkpoint	Years 7-9	£300 per year
Cambridge IGCSE®	Years 10-11	£300 per year
Complete Secondary: Checkpoint and IGCSE®	Years 7-11	£585 per year

International Baccalaureate

PYP	Year 6 only	£120 per year
MYP	Years 7-11	£585 per year

*pricing for 2017

How to Order

Schools wishing to adopt and purchase *Max Maths Adaptive Practice* should contact their local Macmillan Education representative or office. In case of difficulty, please visit our help and support page online at: <http://help.macmillan.com>

Terms and Conditions

Teachers and administrators should carefully read our Terms and Conditions before using the *Max Maths Adaptive Practice* site and creating student accounts. Children under the age of 16 must have parental or guardian consent before using the site.

Full details of our terms can be found at:

<http://maxmaths.education/Terms-of-Use/>

Support



If you have a query or need support for Max Maths Adaptive Practice, please visit:

<http://help.macmillan.com>

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