

# Introduction to Maths Buster – Video!

# Maths Buster

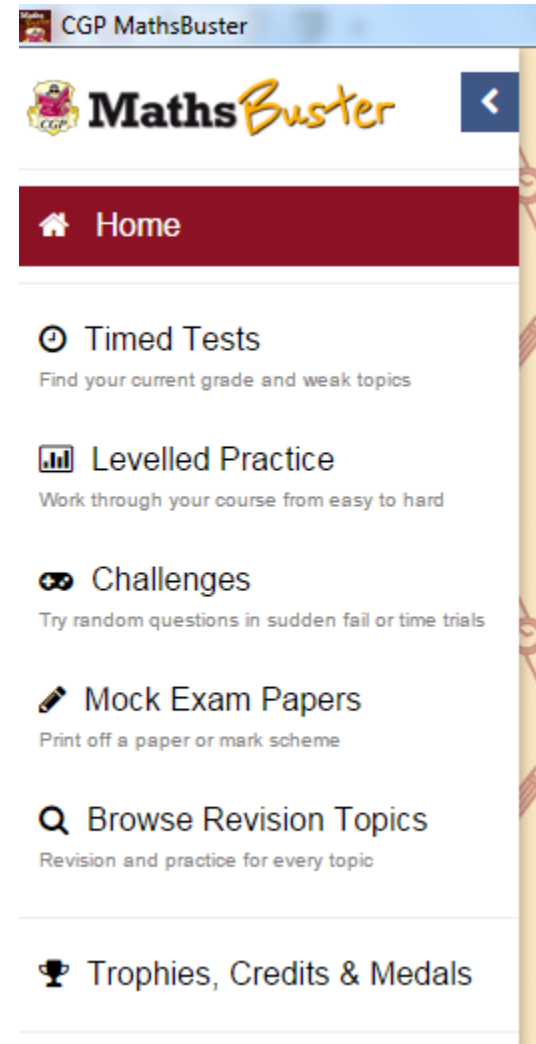
The collage features several key elements from the Maths Buster platform:

- Desktop Monitor:** Shows the main Maths Buster interface with a sidebar menu (Home, Timed Tests, Levelled Practice, Challenges, Mock Exam Papers, etc.) and a central area with a 'Stop Everything and DO THIS!' message and a 'Your Progress' table.
- Tablet:** Displays a 'Scatter Graphs' lesson with a graph showing a negative correlation and a play button icon.
- Trophies, Credits & Medals:** A board showing various achievement icons and levels.
- Levelling Practice:** A progress chart showing levels 1 through 7 with checkboxes and 'Done' buttons.
- Pythagoras' Theorem Worksheet:** A page titled 'Pythagoras' Theorem is Used on Right-Angled Triangles' with the formula  $a^2 + b^2 = c^2$  and a diagram of a right-angled triangle with sides labeled a, b, and c.
- Hand-drawn Diagram:** A hand is shown drawing a shape on a grid of centimetre squares. The shape is a rectangle with a smaller square attached to its top side. The perimeter calculation is shown as  $3 + 5 + 3 + 1 + 1 + 1 + 1 + 1 = 16$ .



# Why is Maths Buster good for students?

- Numerous ways the software can be used so it NEVER gets boring



# Why is Maths Buster good for students?

**1. Start with Levelled Practice.** You'll get questions from all the topics in your course, easiest first, and links to revision for each topic.

**2. Revise any topics you struggle**

**Levelled Practice**

Practice makes perfect... So here are hundreds of specially selected questions covering all difficulty — level 1 is the simplest material, level 8 is the trickiest. Each level is divided into Maths nailed at a time.

If you're feeling confident, you don't have to start at level 1 — **you can start at any unlocked level** to get a good GCSE grade if you forget all the 'easy' topics, so don't just do levels 7 and 8! Also, **doing well on a Timed Test** could unlock some **more levels**, so try that if you're re-stuff.

Level 1	Level 2	Level 3	Level 4
Enter	Enter	Enter	Enter
Level 5	Level 6	Level 7	Level 8
Locked	Locked	Locked	Locked

**Levelled Practice**

Levelled Practice > Level 4

- Number
- Ratio, Proportion and Rates of Change
- Algebra
- Equations and Graphs
- Geometry
- Sets, Data and Probability

# Why is Maths Buster good for students?

Browse revision topics

The screenshot shows the Maths Buster website interface. The main navigation menu on the left includes: Home, Timed Tests (Find your current grade and weak topics), Levelled Practice (Work through your course from easy to hard), Challenges (Try random questions in sudden fall or time trials), Mock Exam Papers (Print off a paper or mark scheme), Browse Revision Topics (Revision and practice for every topic), Trophies, Credits & Medals, Settings, Help and FAQs, and About.

The 'Browse Revision Topics' section is active, displaying a search bar and a list of topics under the heading 'Number, Ratio and Algebra'. The topics listed are:

- Arithmetic
- Approximations
  - 3. Rounding — DP and SF
  - 4. Estimating and Approximating
  - 5. Error Intervals and Bounds
- Powers and Roots
- Factors, Multiples and Primes
- Fractions and Decimals
- Ratios and Proportion
- Percentages
- Expressions
- Equations
- Inequalities
- Proportion – Algebra Problems
- Formulas
- Simultaneous Equations

The Windows taskbar at the bottom shows the time as 13:21 on 25/02/2016, with various application icons including Internet Explorer, Word, and PowerPoint.



# Why is Maths Buster good for students?

- Students can sit timed tests and mock papers
- The results will be linked to the home screen with topics they need to work on

The screenshot shows the 'Mock Exam Papers' section of the Maths Buster website. At the top, there is a red header with the text 'Mock Exam Papers' and a pencil icon. Below the header, a message reads: 'You'll need a trusty biro and a sharp pencil for these. Print the papers out and complete them in the time allowed (no cheating — you're only cheating yourself). Then use the mark scheme to work out your results.' There are three green buttons labeled 'Paper 1 Non-Calculator', 'Paper 2 Calculator', and 'Paper 3 Calculator'. Each button is accompanied by a thumbnail image of a GCSE Mathematics paper cover. At the bottom right of the page, there is a cartoon illustration of an elephant wearing a graduation cap and holding a diploma.

The screenshot shows the 'Timed Tests' section of the Maths Buster website. The page has a red header with the text 'Timed Tests'. Below the header, there is a navigation bar with 'PAUSE and SAVE' and 'FINISH and MARK' buttons. The main content area displays 'Question 1' with a timer showing '30 minutes'. The question text is: 'Anthony's flat has 3 rooms. The areas of the rooms are 17.67 m<sup>2</sup>, 16.58 m<sup>2</sup> and 14.71 m<sup>2</sup>. By rounding each area to the nearest m<sup>2</sup>, estimate the total area of the flat.' Below the question is an input field with 'm<sup>2</sup>' and a '[2 marks]' label. Below this is 'Question 2' with the text: 'y = -x - 1 is the equation of a straight line. Find the coordinates of the x- and y-intercepts of this line.' The page also features a sidebar with navigation options: Home, Timed Tests, Levelled Practice, Challenges, Mock Exam Papers, Browse Revision Topics, Trophies, Credits & Medals, Settings, Help and FAQs, and About.

# Why is Maths Buster good for students?

- The software will guide students to topics they need to revise

## Stop Everything and DO THIS!

### Do some Maths!

Finish some of the things you've started:

- [Revision Topic: 6. Order of Operations \(BODMAS\) and Calculators](#)
- [Revision Topic: 12. Surds](#)
- [Revision Topic: 2. Adding and Subtracting Whole Numbers](#)

Then work on your weaker topics:

- [Multiplying and Dividing Decimals](#)
- [Travel Graphs](#)
- [Parallel and Intersecting Lines](#)
- [Finding Simple Probabilities](#)
- [Stem and Leaf Diagrams](#)

Then complete the [Timed Test](#) you started.

### Maths you did recently

- [Completed Timed Test 1: Paper 1 - Non-calculator](#)  
2 months ago
- [Revision Topic: 6. Order of Operations \(BODMAS\) and Calculators](#)  
2 months ago
- [Revision Topic: 12. Surds](#)  
2 months ago

# Why is Maths Buster good for students?

- Used early enough, students can earn trophies and medals to help motivate





# Why is Maths Buster good for students?

- Unlock challenges, games to help keep students motivated.


To unlock the **first Challenge** you just need to get a decent score on **one part** of a [Timed Test](#). Or, if you're doing [Levelled Practice](#), you'll unlock the first Challenge by completing **two sections** in any level.

The [Trophies, Credits & Medals](#) page shows the credits you've earned — and how many you need to unlock the Challenges.

[Update your Credits](#) (Current total: 20, updated: 11 Mar at 12:24)

### Sudden Fail


How many questions can you do before you get one wrong?



Locked

### Time Trial


Correctly answer 10 random questions as fast as you can.




Locked

### Against the Clock

Correctly answer as many random questions as you can in 3 minutes.



Locked



# Why is Maths Buster good for parents?

- It has a built in revision guide, so you will not need to buy anything else.
- It includes video tutorials so they should not need any help from parents

You might think that a decimal is just a decimal. But oh no — things get a lot more juicy than that...

The screenshot shows a video player interface. At the top, there are three tabs: 'Revision Notes' (orange), 'Video Tutorials' (dark red), and 'Practice Questions' (green). Below the tabs is a 'CLOSE VIDEO' button. The main title of the video is 'Converting between Decimals and Fractions'. Below the title, there is a yellow box with the text 'Write as 10ths / 100ths / 1000ths'. Underneath this, there is a blue box with the text 'Digits after decimal point'. Below the blue box, there is a yellow box with the text '1 → 10ths'. To the right of this, there are two equations:  $0.3 = \frac{3}{10}$  and  $0.7 = \frac{7}{10}$ . A red arrow points from the '1' in the yellow box to the '10ths' text.

The screenshot shows a revision notes page. At the top, there are three tabs: 'Revision Notes' (orange), 'Video Tutorials' (dark red), and 'Practice Questions' (green). Below the tabs, there is a 'Section:' label followed by six numbered buttons (1-6). The main title of the page is 'Converting Decimals to Fractions'. Below the title, there are three numbered steps: 1) To convert a decimal to a fraction, write it as 10ths, 100ths or 1000ths. 2) The number of digits after the decimal point tells you which one to use — if there's one digit after the decimal, use 10ths, if there are two digits, use 100ths and if there are three digits, use 1000ths. 3) Cancel your fraction down (if possible). Below the steps, there is a 'EXAMPLES:' section. Example a) says 'Write 0.9 as a fraction.' and shows 'There's one digit after the decimal point, so write it as 10ths:  $0.9 = \frac{9}{10}$ '. Example b) says 'Write 0.64 as a fraction.' and shows 'There are two digits after the decimal point, so write it as 100ths:  $0.64 = \frac{64}{100}$ '. A red arrow points from the '64' in the fraction to the '100' in the denominator.

It will only cost you £5 (RRP £12.99)

# Why is Maths Buster good for parents?

- The home screen clearly shows progress regardless of how your child is using the software.
- This makes it very easy to 'check up' on your son/daughter.

The screenshot shows the Maths Buster home interface. At the top, it says "You're aiming for a **grade 6** in GCSE - Higher Level." Below this, there are three main sections: "Stop Everything and DO THIS!" with a "Do some Maths!" prompt and links to practice; "Your Progress" with a "Grade by Grade" bar chart; and "Credits you earned recently" with a list of completed topics and a button to "Update your Credits".

This close-up highlights the "Your Progress" section, specifically the "Grade by Grade" bar chart. The chart shows progress bars for grades 5 through 9. Handwritten annotations include a pink note: "3. You'll see your progress here. Questions are rated by difficulty." and a yellow note: "The red, amber and green bars show how many questions you've got right or wrong." The bars are color-coded: green for correct, amber for incorrect, and red for questions not attempted.

# OnMaths

More challenging questions – more problem solving!

Shorter papers for pupils to practise

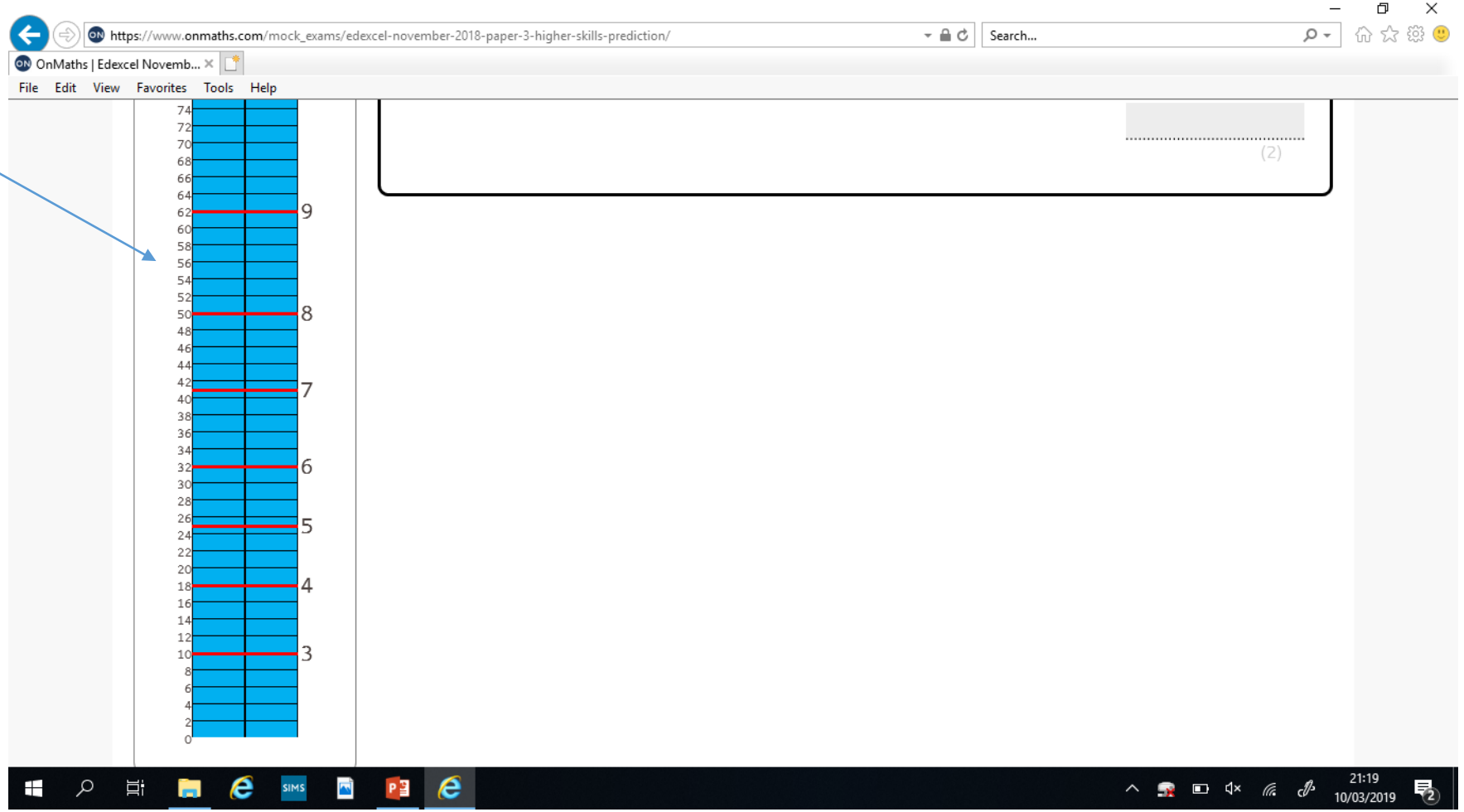
Predicted papers – based on past papers

Practise particular topics

The screenshot shows the OnMaths website homepage. At the top, there is a navigation menu with links for Home, Predicted, Topics, Demons, and Mini Mocks. A search bar is located in the top right corner. Below the navigation menu, there is a large blue banner with a search bar. The main content area features a section titled "Prepare for your Maths GCSE with our free help" with a list of resources: Predicted Papers, Topic Busters, Demon Questions, and Mini Mocks. A table provides statistics for various papers and demons. On the right side, there are sections for "Revision Videos" and "Latest Videos".

Papers	Best Mark	Last Mark	Last Attempt	Attempts	Video	Paper
Edexcel 2016 Paper 1 Prediction A	78%	72%	2 days	11		
Edexcel 2016 Paper 2 Prediction A	38%	32%	7 days	16		
Demon Questions	100%	92%	2 days	5	-	
Demon 1	50%	50%	7 days	9		
Demon 2	100%	100%	4 days	25		
Demon 3	22%	22%	5 days	1		
Demon 4	-	-	-	-		

As pupils complete questions the blue bar will turn green with correct answers to show them their progress towards their target grade



# Maths Watch

The screenshot shows a web browser window with the URL <https://vle.mathswatch.co.uk/vle/assignedwork/assignment/1852109>. The page title is "Sequences Homework". At the top right, there are navigation buttons: "Return to Assigned Work" (yellow) and "Show Answers" (red). Below the title, there is a navigation bar with "Overview" and numbered tabs from 1 to 16. The main content area displays "Sequences Homework" with "17 questions, 41 marks". Underneath, there is a section titled "Helpful Videos" containing five rows of video links:

Clip 37	Generating a Sequence - Term to Term	<a href="#">View One Minute Maths Video</a>	<a href="#">View Video</a>
Clip 102	Generating a Sequence from the nth Term	<a href="#">View One Minute Maths Video</a>	<a href="#">View Video</a>
Clip 103	Finding the nth Term	<a href="#">View One Minute Maths Video</a>	<a href="#">View Video</a>
Clip 104	Special Sequences	<a href="#">View One Minute Maths Video</a>	<a href="#">View Video</a>
Clip 213	Finding the nth Term of a Quadratic	<a href="#">View One Minute Maths Video</a>	<a href="#">View Video</a>

At the bottom of the page, there are two buttons: "Begin Homework" (green) and "Print Questions" (white).

The Windows taskbar at the bottom shows the time as 21:23 on 10/03/2019. The taskbar includes icons for the Start menu, search, task view, File Explorer, Edge browser, SIMS, and PowerPoint.



Pupils can search for videos and resources on a chosen topic

There will be videos and worksheets available for the topics

The screenshot shows the MathsWatch website interface. The browser address bar displays `https://vle.mathswatch.co.uk/vle/browse`. The navigation menu includes 'Classes', 'Assignments', 'Users', 'Videos', 'Usage', 'Extras', and 'Contact'. A user account for 'Laura' is logged in, with a 'Logout' button and a note '64 days until renewal!'. The main content area is titled 'Video' and features the MathsWatch logo and the text 'Please choose a video in the menu opposite.' To the right, there is a 'Find a Clip' search panel with filters for 'Qualification' (GCSE), 'Tier' (All), 'Grade' (All), and 'Topic' (All). A search box contains the text 'equa'. Below the search panel is a 'Choose Clip (15)' section with a table of video clips.

Clip	Title
100	Solving Equations using Flowcharts
135a	Solving Equations - Balancing
135b	Solving Equations - Float & Ping
137	Forming Formulae and Equations
138	Inequalities on a Number Line
139	Solve Linear Inequalities
140	Simultaneous Equations Graphically