



# Teach Us Ma+hs

[www.teachusmaths.com](http://www.teachusmaths.com)  
Email: [hello@teachusmaths.com](mailto:hello@teachusmaths.com)

My name is Amy and I have been a qualified Maths Teacher since 2005.

I have vast teaching experience, having taught in a variety of Secondary Schools, as well as online for an Alternative Provision.

I am also an examiner and a mum!

- Here at Teach Us Maths, we believe that every student should have access to quality education.
- We also understand that not everyone can find/afford a Maths tutor to help them in this journey.
- That is why I am offering **FREE Live Maths Lessons** each with a useful **handout**.
- If you find the lessons helpful, and you are willing/able, you can send me a donation.
- Alternatively, for just £6/month with no contract, you can subscribe to my website. Here you will find additional resources, namely a **worksheet** and **slideshow** that accompany the Live Lesson. You will also gain access to all the other available **topics**, each with a pre-recorded **video**!



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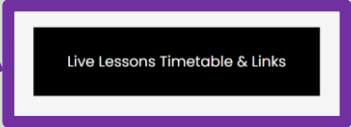
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## Option 1

### FREE / donation

Go to [www.teachusmaths.com](http://www.teachusmaths.com)

On the homepage look for the button labelled  
'Live Lessons Timetable & Links'



Here you will find:

- the timetable of lessons (and who they are most suited to)
  - the link to the live lesson
  - the relevant printable handout

You will also be able to access the 'live lesson' recording, plus all the pre-recorded lessons, on my [YouTube channel](#).

I can only offer live lessons thanks to the generous donations from my audience.

If you are finding the lessons useful, please consider donating. This could be a one-off payment of an amount of your own choosing, or a monthly payment.

Thank you!

[DONATE](#)

## Option 2

### £6/month (no contract)

Go to [www.teachusmaths.com](http://www.teachusmaths.com)

On the homepage look for the button labelled  
'Live Lessons Timetable & Links'

Here you will find:

- the timetable of lessons (and who they are most suited to)
  - the link to the live lesson
  - the relevant printable handout
  - the link to the accompanying worksheet
  - the link to the accompanying slideshow


MAKE SURE THAT YOU ARE SUBSCRIBED AND LOGGED IN TO [WWW.TEACHUSMATHS.COM](http://WWW.TEACHUSMATHS.COM) BEFORE CLICKING ON THESE 2 LINKS

You will also be able to access the 'live lesson' recording, plus all the pre-recorded lessons, on my [YouTube channel](#).

Anyone choosing Option 2 will also gain access to ALL topics.

Each topic includes:

- a slideshow 'Lesson'
- an accompanying 'Worksheet'
- and a detailed pre-recorded 'Video'.



Subscribe

Log In

Join my facebook group [FREE Maths Lessons UK - Teach Us Maths](#) to stay up to date!

These lessons will cover a variety of core Mathematics topics and are best suited to people following the National Curriculum for England.

GREEN topics are of approximate GCSE grades 1 – 3 BLUE topics are of approximate GCSE grades 4 & 5 PURPLE topics are of approximate GCSE grades 7 - 9

\* Please note that I reserve the right to cancel any live lesson if I deem it necessary. \* Please also note that all lessons are recorded for safeguarding reasons. \*

	5pm	6pm	7pm
Thursday 20 <sup>th</sup> March	N 2.1 Adding & Subtracting Negative Numbers	G 10.1 Pythagoras' Theorem	G 12.1 Circle Theorems
Thursday 27 <sup>th</sup> March	N 3.4 Multiplying Decimals	G 10.2 Trigonometry - Introduction	G 10.5 Sine Rule
Thursday 3 <sup>rd</sup> April	N 4.1 Equivalent Fractions	N 4.4 Adding & Subtracting Fractions	G 10.6 Cosine Rule
EASTER HOLIDAYS			
Thursday 24 <sup>th</sup> April	N 6.2 Percentages of an Amount (Non-Calculator)	N 6.7 Compound Interest	N 7.7 Calculating with Upper & Lower Bounds
Thursday 1 <sup>st</sup> May	N 5.1 Converting between Fractions, Decimals & Percentages	N 9.1 Standard Form	N 5.3 Recurring Decimals
Thursday 8 <sup>th</sup> May	R 1.2 Simplifying Ratio	R 1.3 Sharing in a Ratio	N 10.1 Surds
Thursday 15 <sup>th</sup> May	A 3.2 Collecting Like Terms	A 3.7 Laws of Indices (Algebra)	N 8.3 Fractional Indices
Thursday 22 <sup>nd</sup> May	A 3.5 Expanding Single Brackets	A 3.6 Factorising into Single Brackets	R 2.3 Direct Proportion (Algebra)
HALF TERM HOLIDAYS			
Thursday 5 <sup>th</sup> June	A 3.10 Solving Linear Equations	A 4.1 Expanding Double Brackets	R 2.4 Inverse Proportion (Algebra)
Thursday 12 <sup>th</sup> June	G 5.2 Converting Metric Units	A 4.2 Factorising Quadratics	A 4.12 Solving Quadratics – All Methods
Thursday 19 <sup>th</sup> June	G 3.1 Circumference	A 9.1 Simultaneous Equations - Linear	A 7.4 Solving Quadratic Inequalities
Thursday 26 <sup>th</sup> June	G 3.3 Area of Circles	A 10.1 Linear Sequences	A 10.2 Quadratic Sequences
Thursday 3 <sup>rd</sup> July	S 2.1 Mean, Median, Mode, Range	S 2.2 Averages from a Table	A 8.2 Iteration
Thursday 10 <sup>th</sup> July	P 1.1 Basic Probability	P 2.2 Tree Diagrams	A 12.1 Functions
Thursday 17 <sup>th</sup> July	A 2.2 Plotting Linear Graphs (y = mx + c)	P 2.3 Venn Diagrams	A 13.1 Algebraic Proof
SUMMER HOLIDAYS			

# LIVE LESSONS

Topic:	A 3.10 Solving Linear Equations	A 4.1 Expanding Double Brackets	R 2.4 Inverse Proportion (Algebra)
Date:	Thursday 5 <sup>th</sup> June	Thursday 5 <sup>th</sup> June	Thursday 5 <sup>th</sup> June
Time:	5pm	6pm	7pm
Most suitable For:	Key Stage 3 GCSE Foundation	Key Stage 3 GCSE Foundation GCSE Higher	GCSE Higher
Live Lesson cancelled due to illness:	<u>Pre-recorded Video</u>	<u>Pre-recorded Video</u>	<u>Pre-recorded Video</u>
Link to Handout:	<u>Handout</u>	<u>Handout</u>	<u>Handout</u>
<p>*Please note that due to safeguarding reasons, comments during the lessons will be disabled. If time allows, I will answer some of the questions that have been submitted to me via my email during the lessons.</p> <p>To submit a question:</p>	<p>Email me: <a href="mailto:hello@teachusmaths.com">hello@teachusmaths.com</a></p>	<p>Email me: <a href="mailto:hello@teachusmaths.com">hello@teachusmaths.com</a></p>	<p>Email me: <a href="mailto:hello@teachusmaths.com">hello@teachusmaths.com</a></p>

If you have a **subscription** (£6/month no contract) to [www.teachusmaths.com](http://www.teachusmaths.com) you can also access:

Accompanying Worksheet	<u>Worksheet</u>	<u>Worksheet</u>	<u>Worksheet</u>
Slideshow Lesson	<u>Slideshow Lesson</u>	<u>Slideshow Lesson</u>	<u>Slideshow Lesson</u>

Don't forget that if you miss a lesson, you can find the recorded live lesson, plus pre-recorded lessons, FREE on my [YouTube channel](#)

Finding the lessons useful? Please consider 'buying me a coffee'. Thank you!



[DONATE](#)



# Solving Linear Equations

Solve the following equations:

(a)  $x + 9 = 10$

(b)  $a - 3 = 5$

(c)  $2w = 10$

(d)  $\frac{m}{2} = 10$

(e)  $4y + 1 = 13$

(f)  $3(d - 7) = 12$

(g)  $\frac{f}{2} - 6 = 3$

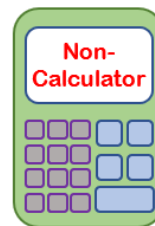
(h)  $\frac{p + 8}{4} = 2$

(i)  $13 = 3v - 2$

(j)  $4 + 2b = 22$

(k)  $30 - 5t = 10$

(l)  $\frac{9 - c}{3} = 2$



# Expanding Double Brackets

Expand and simplify:

(1)  $(x + 3)(x + 7)$

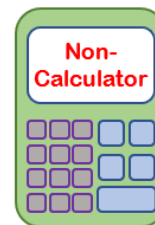
(2)  $(y + 5)(y - 4)$

(3)  $(x - 1)^2$

(4)  $(x - 9)(x + 9)$

(5)  $(2 - x)(x - 11)$

(6)  $(2x + 4)(3x - 7)$



# Inverse Proportion (Algebra)

1)  $y$  is inversely proportional to  $x$ . When  $y = 2$ ,  $x = 12$ .

(a) Write an equation for  $y$  in terms of  $x$ .

(b) Find the value of  $y$  when  $x = 8$ .

(c) Find the value of  $x$  when  $y = 6$ .

2)  $w$  is inversely proportional to  $z^2$ . When  $w = 10$ ,  $z = 5$ .

(a) Write an equation for  $w$  in terms of  $z$ .

(b) Find the value of  $w$  when  $z = 2$ .

(c) Find the value of  $z$  when  $w = 2.5$ .

3)  $y$  is inversely proportional to  $\sqrt{x}$ .

Complete the table:

$x$		9	100
$y$	9	6	

