



Teach Us Maths

www.teachusmaths.com
Email: 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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UK – Teach Us Maths
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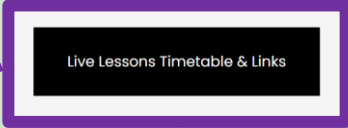
[@teachusmaths](https://www.youtube.com/@teachusmaths)

Option 1

FREE / donation

Go to www.teachusmaths.com

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



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

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 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 th March	N 2.1 Adding & Subtracting Negative Numbers	G 10.1 Pythagoras' Theorem	G 12.1 Circle Theorems
Thursday 27 th March	N 3.4 Multiplying Decimals	G 10.2 Trigonometry - Introduction	G 10.5 Sine Rule
Thursday 3 rd April	N 4.1 Equivalent Fractions	N 4.4 Adding & Subtracting Fractions	G 10.6 Cosine Rule
EASTER HOLIDAYS			
Thursday 24 th 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 st May	N 5.1 Converting between Fractions, Decimals & Percentages	N 9.1 Standard Form	N 5.3 Recurring Decimals
Thursday 8 th May	R 1.2 Simplifying Ratio	R 1.3 Sharing in a Ratio	N 10.1 Surds
Thursday 15 th May	A 3.2 Collecting Like Terms	A 3.7 Laws of Indices (Algebra)	N 8.3 Fractional Indices
Thursday 22 nd 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 th June	A 3.10 Solving Linear Equations	A 4.1 Expanding Double Brackets	R 2.4 Inverse Proportion (Algebra)
Thursday 12 th June	G 5.2 Converting Metric Units	A 4.2 Factorising Quadratics	A 4.12 Solving Quadratics – All Methods
Thursday 19 th June	G 3.1 Circumference	A 9.1 Simultaneous Equations - Linear	A 7.4 Solving Quadratic Inequalities
Thursday 26 th June	G 3.3 Area of Circles	A 10.1 Linear Sequences	A 10.2 Quadratic Sequences
Thursday 3 rd July	S 2.1 Mean, Median, Mode, Range	S 2.2 Averages from a Table	A 8.2 Iteration
Thursday 10 th July	P 1.1 Basic Probability	P 2.2 Tree Diagrams	A 12.1 Functions
Thursday 17 th 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 3.2 Collecting Like Terms	A 3.7 Laws of Indices (Algebra)	N 8.3 Fractional Indices
Date:	Thursday 15 th May	Thursday 15 th May	Thursday 15 th May
Time:	5pm	6pm	7pm
Most suitable For:	Key Stage 3 GCSE Foundation	Key Stage 3 GCSE Foundation GCSE Higher	GCSE Higher
Link to Live Lesson:	Live Lesson	Live Lesson	Live Lesson
Link to Handout:	Handout	Handout	Handout
<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: hello@teachusmaths.com</p>	<p>Email me: hello@teachusmaths.com</p>	<p>Email me: hello@teachusmaths.com</p>

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

Accompanying Worksheet	Worksheet	Worksheet	Worksheet
Slideshow Lesson	Slideshow Lesson	Slideshow Lesson	Slideshow Lesson

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!



Collecting Like Terms

Simplify each of the following expressions:

(a) $b + b + b + b$

(b) $6v + 2v$

(c) $5e - 4e$

(d) $7j + j - 8j$

(e) $3d - 7d$

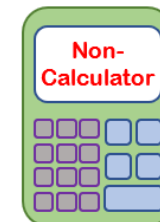
(f) $8a + 3c + 2c - a$

(g) $9q + 3r - 5r - 4q$

(h) $10t - 5m - 12t + 2m$

(i) $3k^2 + 8kz - k^2 - 3kz$

(j) $y^2 - 4y - 2 + y - 8y^2 + 1$



Laws of Indices (Algebra)

Write as a single power:

(a) $x^3 \times x$

(d) $w^7 \div w^3$

(h) $(h^3)^5$

(b) $a^4 \times a^5$

(e) $t^5 \div t^5$

(i) $(k^{-3})^4$

(c) $p^{-7} \times p^{-3}$

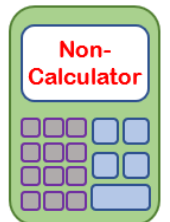
(f) $d^5 \div d^{-4}$

(j) $(c^{-8})^{-5}$

(d) $5v^3 \times 2v^{10}$

(g) $12f^4 \div 3f^9$

(k) $(3m^5)^2$



Fractional Indices

Evaluate:

1. (a) $49^{\frac{1}{2}}$

(b) $27^{\frac{1}{3}}$

(c) $16^{\frac{1}{4}}$

(d) $\left(\frac{8}{1000}\right)^{\frac{1}{3}}$

2. (a) $4^{\frac{3}{2}}$

(b) $125^{\frac{2}{3}}$

(c) $81^{\frac{3}{4}}$

(d) $\left(\frac{1}{64}\right)^{\frac{2}{3}}$

3. (a) $36^{-\frac{1}{2}}$

(b) $27^{-\frac{2}{3}}$

(c) $10000^{-\frac{3}{4}}$

(d) $\left(\frac{9}{25}\right)^{-\frac{3}{2}}$

