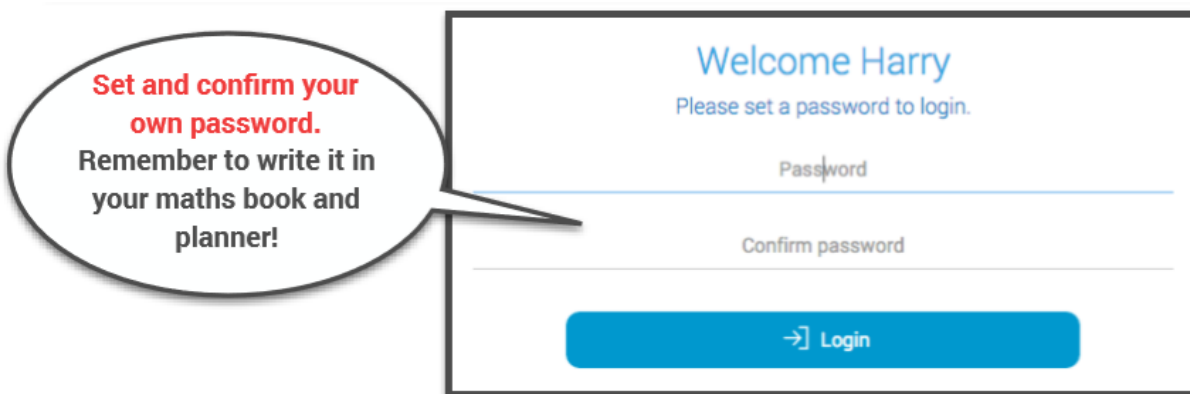
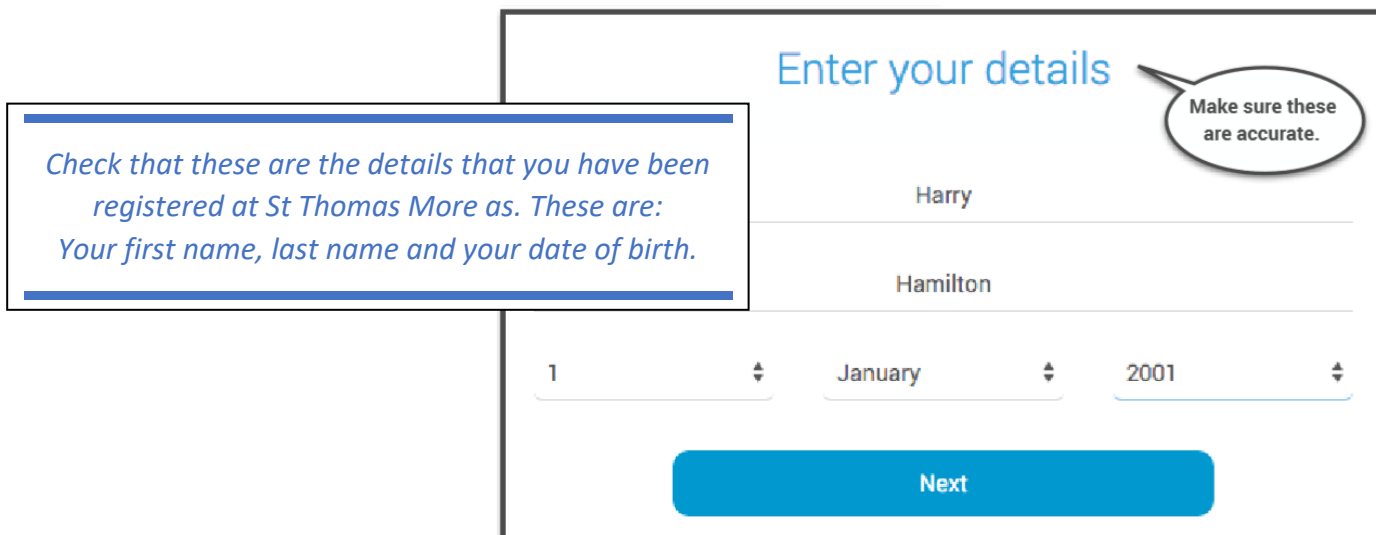
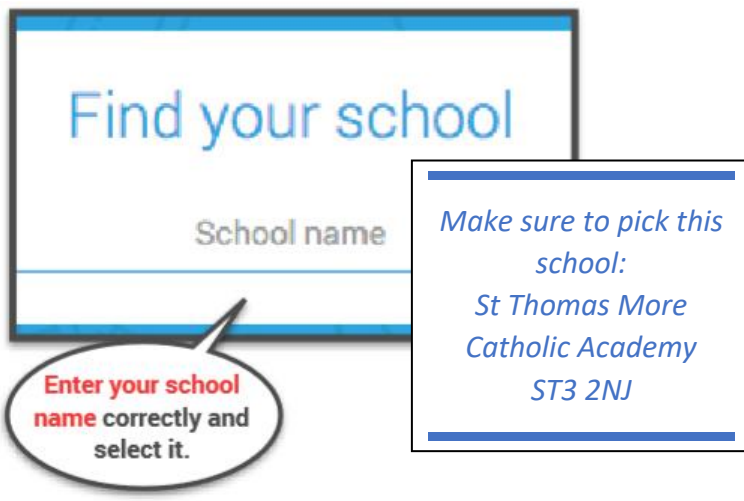
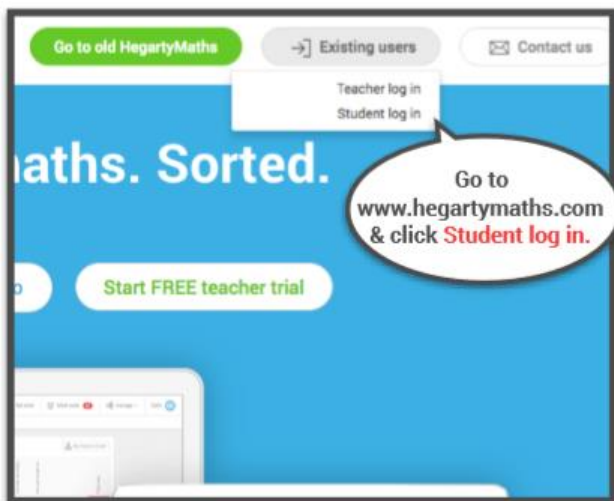


St Thomas More Catholic Academy – Mathematics Department

For your Mathematics Challenge, we have given you exclusive, early access to our online platform, HegartyMaths. Here you can find hundreds of lessons, activities and revision materials to help support your progress.

How to access HegartyMaths:



Remember your password! If you do forget it though, you can send a request to your assigned teacher to get this reset at any time.

You now have full access to our online learning centre. When you begin year 7, this is where some of your home learning will take place. However, it is also a fantastic revision platform. To revise a topic, you can use the search bar at the top of the page.

At St Thomas More Catholic Academy, we strive for excellence. This short guide explains how we expect our students to use HegartyMaths to support their learning:

Doing a task

Watch the video carefully taking the best notes you can. Use lots of colour and work hard to follow each example. Replay anything you might be unsure of.

Work on your **Building blocks**. If you struggle with the video then improving these will help you access the task better. Aim to make all building blocks 100%.

Did you understand the video?

No

Yes

Do quiz

During the quiz, you have two opportunities to get the question correct. If you have a question about the solution, you may message a member of the department here at St Thomas More Catholic Academy using the drop down menu.

If you'd like, leave a comment for your teacher

Select a teacher to send a comment to...

Other teachers

- Brookes
- Pycroft

Submit comment

If you have any questions BEFORE September, please send any comments to Miss BROOKES. To find any material, enter the skill number into the search bar.

What score did you get in the quiz?

100%

Great effort! Why not try the next HW or **improve some of your other scores.**

70 - 99%

Try the quiz again and work hard to learn from any previous mistakes.

Below 70%

Don't give up. If you have taken full notes of the video, worked on your building blocks and you're still struggling then leave comments for your teacher to ask for help. It's important you make sure you **ask your teacher for help** to make sure you can eventually get 100%.

To prepare for year 7, we would like you to complete as many of the suggested video clips as possible.

Topic	Skill	Skill Number	Topic	Skill	Skill Number
Arithmetic with positive integers	Related multiplication and division facts	6	Place Value	Read & write positive integers	13
	Commutative law	7		Compare positive integers	14
	Associative law	8		Multiply by powers of 10	15
	Multiplication facts	10		Divide by powers of 10	16
	Division facts	11		Round numbers to the nearest 10, 100, 1000	17
	Distributive law of multiplication	12			
Properties of Positive Integers	Divisibility tests	26	Decimals	Read and write decimals	45
	Factors of a number	27		Compare decimal numbers	46
	Prime numbers	28		Addition & subtraction of decimals	47
	Highest common factor (listing)	31		Division with decimal answers	49
	Multiple of a number	33		Worded problems involving decimals	51
	Lowest common multiple (listing)	34		Convert simple decimals to fractions	52
	LCM (Worded problems)	36		Convert simple decimals to percentages	55
				Round decimal numbers	56
Fractions	Fractions and pictures	58	Operations with positive integers	Addition and subtraction (worded problems)	20
	Generate equivalent fractions	59		Long multiplication	21
	Compare fractions	60		Short division	22
	Simplify fractions	61		Multiplication and division (worded problems)	23
	Express one number as a fraction of another	62	Percentages	Percentages as pictures	81
	Improper fractions to mixed numbers	63		Convert percentages to fractions	82
	Mixed numbers to improper fractions	64		Convert percentages to decimals	83
	Multiply whole numbers by fractions	67		Find percentages of amounts	84
	Fraction of an amount	77	Linear Equations	Solve equations using inverse operations	177
				Linear sequences from pictures	196
		Linear sequences (term-to-term rule)		197	
		Cartesian axes and coordinates		199	
Number Sense	Short multiplication	144	Perimeter and Area	Perimeter	548 – 551
	Long division	145		Counting Squares	553
	Mental maths	147, 148		Rectangles	554
Naming and Drawing Angles	Types of angles	455		Compound Shapes	555
	Naming sides and angles	456	Parallelograms	556	
	Measuring angles	458 – 460	Triangles	557, 558	
	Drawing angles	461			
Angle Facts	Angles on a straight line	477			
	Angles in a triangle	485, 486			

MATHEMATICS CHALLENGE SECTION

If you find the above skills a bit too simple, have a go at some of these challenge lessons. This will give you a bit of a taste of what to expect in year 7 and onwards. 😊

Topic	Skill	Skill Number	Topic	Skill	Skill Number
Probability	Express probability in words	349	Displaying Data	Bar charts and vertical line graphs	425
	Express probability in numbers	350		Pictograms	426
	Probability of single events	351, 352		Time series	450
Expressions	Collecting like terms	156		Pie charts	427 - 429
	Expand a single bracket	160		Scatter diagrams	453
	Factorise simple expressions	168	Ratio and Proportion	Compare quantities using ratios	328
Percentages	Find percentages of amounts	85, 86		Simplify ratios	329
	Percentage/decimal multipliers	89		Write ratios as fractions/proportions	330
	Percentage increase or decrease	90		Share in a given ratio	332 – 334
	Simple interest	93		Direct proportion	339
Linear Equations	Solve 1-step equations	178	Number Sense	Conversions between FDP	149
	Solve 2-step equations	179, 180, 182		Order of operations with roots	120
	Solve 3-step equations	183		Order of operations combined	150