

Year 7 Mathematics at TDA

- Stage 7 Mathematicians – Class Names
Angelou, Boyle and Curie (3 lessons per week)
- Stage 6 Mathematicians – Class Names
Dahl and Euclid (3 or 5 lessons per week)
- Stage 5 Mathematicians – Class Name
Fermat (5 lessons per week)
- Stage 4 Mathematicians – Class Names
Golding and Ramanujan (5 lessons per week)

Can I See What My Young Mathematician Will Be Studying?

You can find all SoW on the TDA webpage in the curriculum area.

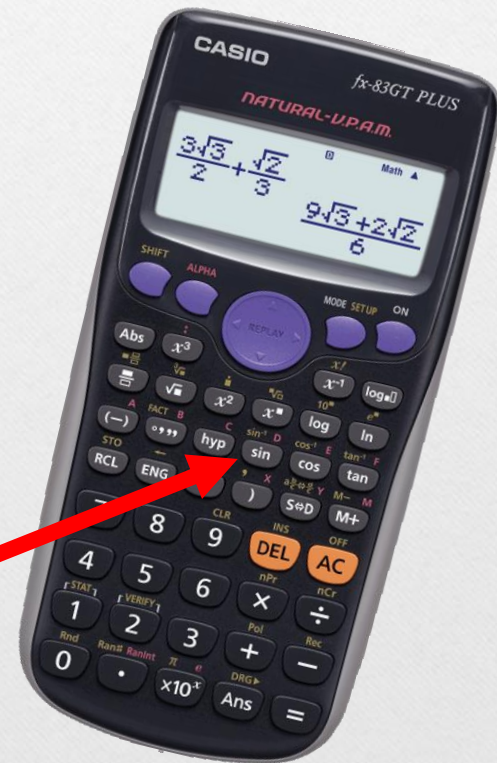


Mathematics Curriculum map Year 7 Secondary Ready

Term	Topic	Skills addressed	Literacy skills addressed	Key assessment tasks
Term 1	Numbers and the number system Calculating Division	<ul style="list-style-type: none"> Understand and use decimals with up to three decimal places. Work with numbers up to ten million. Explore the use of negative numbers. Develop understanding of factors and multiples. Investigate prime numbers. Develop mental calculation skills. Extend written methods of multiplication. Know and use the order of operations. Solve problems involving addition, subtraction and multiplication. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2	Progress Test 1
Term 2	Division Visualising and constructing Investigating properties of shapes	<ul style="list-style-type: none"> Develop written methods of division. Deal with remainders when carrying out division. Solve problems involving the four operations. Construct 2D shapes. Investigate 3D shapes. Explore nets of 3D shapes. Investigate properties of 2D shapes. Investigate angles in polygons. Understand and use the vocabulary of circles. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2	Progress Test 2
Term 3	Algebraic proficiency: using formulae Exploring fractions, decimals and percentages Proportional reasoning Pattern sniffing	<ul style="list-style-type: none"> Use simple formulae written in words. Create simple formulae written in words. Work with formulae written algebraically. Explore the equivalence between fractions. Use the equivalence between fractions. Explore the equivalence between fractions, decimals and percentages. Solve problems involving scaling. Explore enlargement. Solve problems involving sharing and grouping. Explore number sequences. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2	Progress Test 3
Term 4	Pattern sniffing Measuring space Investigating angles Calculating fractions, decimals and percentages	<ul style="list-style-type: none"> Solve problems involving measurement. Develop knowledge of angles. Apply angle facts to deduce unknown angles. Calculate with fractions. Calculate with decimals. Calculate with percentages. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2	
Term 5	Calculating fractions, decimals and percentages Solving equations and inequalities Calculating space	<ul style="list-style-type: none"> Solve missing number problems. Understand and use algebra. Explore area. Investigate volume. Solve problems involving area and volume. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2	Progress Test 4
Term 6	Checking, approximating and estimating Mathematical movement Presentation of data Measuring data	<ul style="list-style-type: none"> Explore ways of approximating numbers. Explore ways of checking answers. Understand and use Cartesian coordinates. Use transformations to move shapes. Construct and interpret pie charts. Solve problems involving graphs and charts. Understand and use the mean. 	Speaking and listening - LK2, SK4 Reading - RK1 Writing - WK2, WK4 comparing data sets	Yr7 Examination

Tools For Mathematicians

- ✓ A pen
- ✓ A pencil
- ✓ A ruler
- ✓ A compass
- ✓ A protractor
- ✓ A **Scientific** calculator

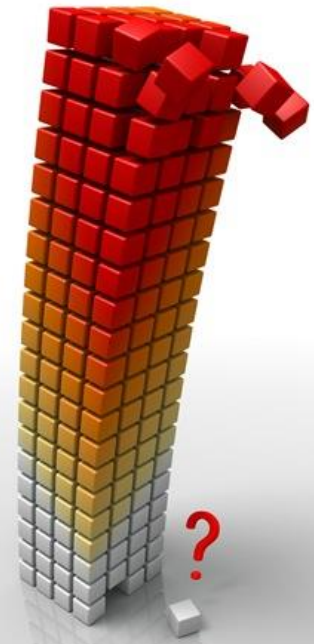


Encourage your child to be neat. Why?

- It saves time since things don't get lost on the page.
- It leads to self-discipline and planning.
- It leads to greater self-confidence and pride.

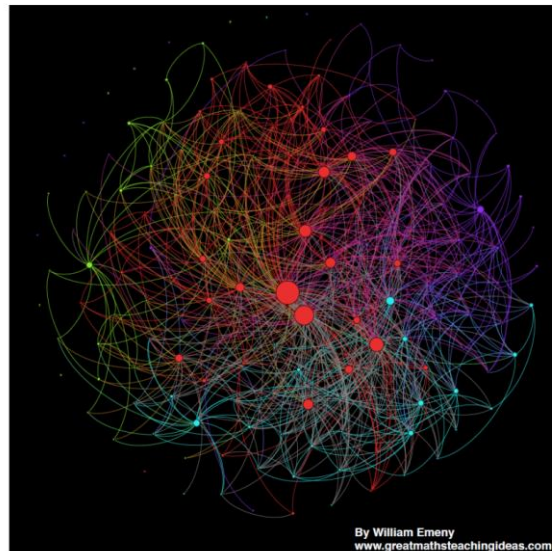
In Maths neatness makes a huge difference. If your child does not lay work out neatly, there is every chance that mistakes will be made. Encourage them to present their homework neatly and to take pride in all of their work.

Any structure that has poor foundations will either crumble or will not allow future growth. Maths is no different! The basics have to be in place. Your child will need to have a solid understanding of number and need to be proficient at using their mental maths skills for calculations.

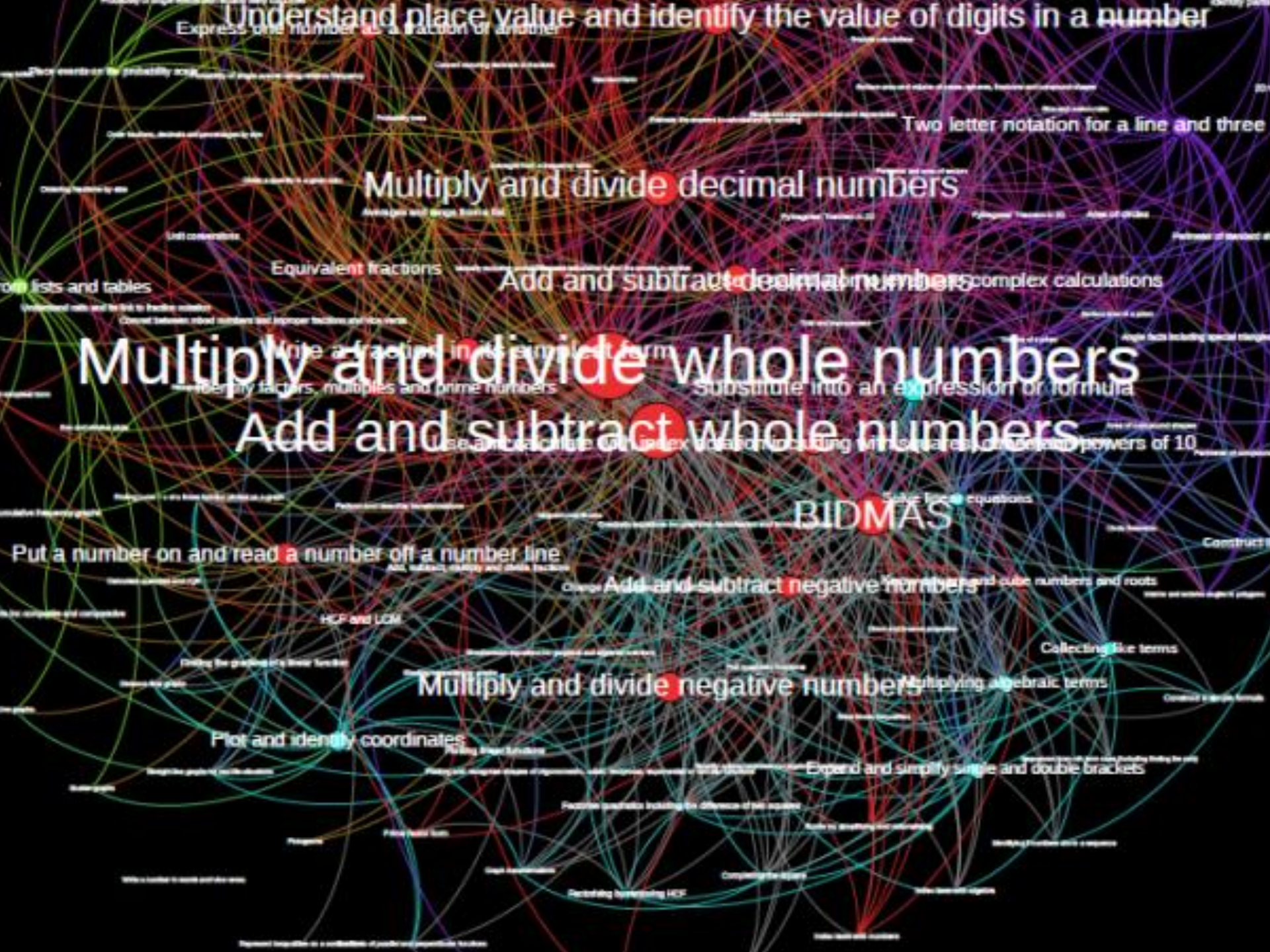


Why does my child need to be good at Mental Maths?

As your child progresses through Secondary School, the maths problems they will attempt to solve will become more complex. They need to be focussed on thinking about which formula to use and which strategy to apply – they do not want to be slowed down by the basics. Ultimately, they will be taking their GCSE examination – any time lost by having to spend a disproportionate amount of time thinking about the basics is time that they could be using to complete the paper or to check questions for any errors.



By William Emery
www.greatmathsteachingideas.com



Understand place value and identify the value of digits in a number

Express one number as a fraction of another

Two letter notation for a line and three

Multiply and divide decimal numbers

Equivalent fractions

Add and subtract decimal numbers

complex calculations

Multiply and divide whole numbers

Add and subtract whole numbers

BIDMAS

Add and subtract negative numbers

Multiply and divide negative numbers

Collecting like terms

Expand and simplify single and double brackets

Plot and identify coordinates

HCF and LCM

Put a number on and read a number off a number line

lists and tables

Place events on the probability scale

be compatible and commensurate

the plane

subgroups

Write a number to words and vice versa

Represent inequalities on a numberline of positive and negative numbers

Calculate with numbers

Country page

Perimeter of rectangles

Simple facts including special strategies

Use of estimation

Construct

Volume and surface measure

Construct 3-D shapes

Use appropriate units

Order

Name.....

Stage 7 - Term 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7			
1 Using place value										
2 Multiplying 2 digit x 2 digit numbers										
3 Simplifying expressions										
4 Substituting values into formulae										
5 Rounding to 1 significant figure										
6 Simple equations										
7 Finding missing terms in sequences										
8 Expanding brackets										
9 Metric measure conversions										
10 Identifying cube and square numbers										



Target / Question

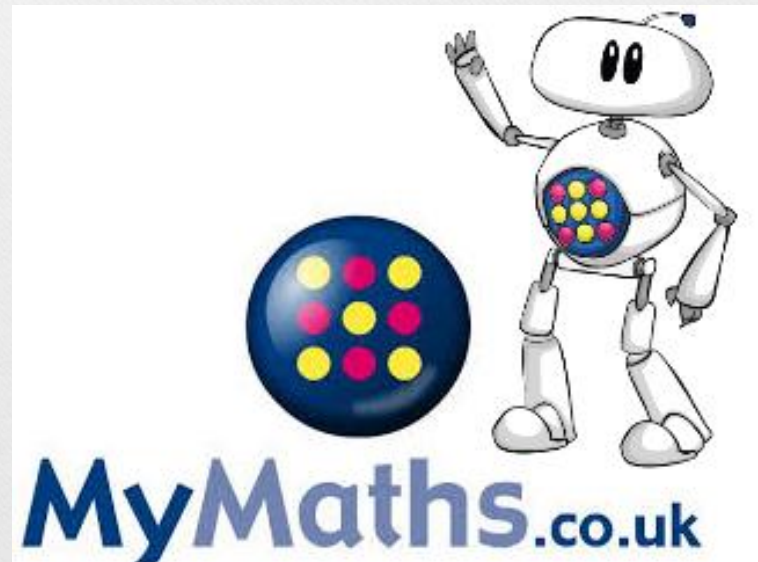
Date Achieved

Week 1		
Week 2		

'But I'm no good at Maths!' How can I help?

Please do not pass your 'Fear of Maths' or 'Dislike of the Subject' onto your child. No matter what your ability or your level of love for the subject, you can support your child. A by-product of supporting your child's development will be an improvement in your mental maths. Two for the price of one!
Encourage your child and give them plenty of support with their learning.

Login: Deacon
Password: circle



Mr Barton Maths

Maths Topic Index Page

This is my favourite part of my website. It is how I plan each of my lessons, and how I encourage my students to revise.

HOW TEACHERS COULD USE THE PAGE

HOW STUDENTS COULD USE THE PAGE

Just start typing the topic here...

Number Skills

Rounding and Estimating

Fractions, Decimals,
Percentages

Ratio and Proportion

Surds and Indices

Algebra Skills

Brackets

Solving Equations

Supporting your Child's Maths

- ✓ Lots of praise
- ✓ Plenty of encouragement
- ✓ Support them with their homework
- ✓ Encourage them to present their work neatly
- ✓ Encourage your child to practise their times tables
- ✓ Use practical activities to support their learning
- ✓ Speak to them about any worries they have
- ✓ Talk to their Maths Teacher
- ✓ Keep practicing over the summer holidays
- ✓ Lots of practise!!

