

Mathematics



We can't wait to meet you . . .

All the maths teachers at Crestwood are very much looking forward to meeting you. Hopefully, by completing this booklet you will be able to find out some facts about the maths teachers at Crestwood, do some research into some of our favourite mathematicians, and do some maths either on your own or with your family.



<u>Meet the Team</u>

There are 14 maths teachers at Crestwood. Throughout this booklet you will find some of their favourite Maths related things. Come back to this page to fill them in when you spot them. Can you find them all?





<u>Maths Puzzle</u>

The numbers in the 2 circles add up to the number in the squares between them. Can you fill in all the missing numbers? (show your workings in the spaces at the sides)



These two have numbers missing in the circles as well. Can you find them?

What strategy did you use?



Mrs Mitchener's favourite number is the sum of the first 4 prime numbers.

Mathematics Equipment

Secondary Mathematics is so exciting!



Miss Ward's favourite number is the 9th prime number.

To be ready for every lesson you will need the following equipment:-

- A pen A pencil
- A rubber
- A ruler
- A green pen (For marking and correcting)
- A whiteboard pen (We use mini whiteboards a lot!)
- A highlighter (this is to ensure your powerful knowledge stands out!)

You will need your own calculator. We recommend getting a Casio FX83-GTX (Put your name on it)



Sometimes we use geometry sets,

(protractor and compass). We

recommend that all students bring their own to each maths lesson.

<u>DrFrost</u>

We use DrFrost for homework - you will be given the login details and your own login and password details in September.

We give ClassChart points to all students who work hard on their homework.







Number of the day

Once a week the lesson will start with a number of the

day - these are designed to help you remember a range of topics and keywords. How many of these can you answer? Mrs Sinclair wants you to answer this to find her favourite number 2+5x8/2

> Mrs Berry's favourite number is 2 x 4 - 1

The number is between 0 v and 20 v and a multiple of 1 v	Your num day i	Questions: 12 Difficulty: Medium Background:	
1.⊍ Subtract 10	2.ʊ The first 4 multiples are	3.ల Divide by 100	^{4.ʊ} Square it
5.ʊ Round to nearest 5	6.υ Find ⁵ ∕7	7.0 Sum of integers 1 to 14	8.ʊ Subtract 3
9.ບ Times by 9	10.ല lts factors are	۱۱.ʊ Next prime number is	^{12.ບ} Next square number is

Famous Mathematicians

There are lots of famous mathematicians who inspire us and we all have our favourites.

Mrs Scott especially admires Katherine Johnson 1918-2020. She joined NASA and used her maths skills to help the first spaceship reach the moon! (she believed that "everything is physics and maths")

Research a famous mathematician and email us what you find.

Miss Ward's Favourite topic is the quadratic formula.

<u>Hexagon Problems</u>





Heather can make two connected hexagons by drawing 11 lines.



What is the minimum number of lines Heather needs to draw 12 hexagons?

Extension: What numbers of hexagons are the most efficient to draw and why?



James puts the numbers 1 to 19 into this beehive shape.

Each row, in all directions, adds to make 38.

Hint: the top row is a good place to start.

What number must go in the red hexagon?

Extension: Can you make your own magic hexagon which is different to James' puzzle?

Mr Johnson's favourite number is √81 + √169

Mr Caplen's favourite topic is algebraic pro."





Cross Number

Use the clues to complete the cross number



-	0	
	Mr Garrard's	
	favourite number	
_	is √64.	
6		

Clues Across			Clues Down	
1:	191 x 2	1:	20% of 1770	
3:	1327 + 2404	2 :	Square root of 484	
5:	50% of 480	3:	Three-quarters of 40	
7:	6 x 7	4:	4722 - 2856	
9:	424 divided by 4	6:	1872 + 2879	
10:	1986 + 2971	8:	264 divided by 11	
13:	A quarter of 5056	11:	4035 + 3245	
15:	41 x 5	12:	One third of 3699	
16:	75% of 76	14:	75% of 60	
18:	953 - 547	17:	1453 - 741	
20:	1273 + 2358	18:	First prime number after 40	
21:	1856 divided by 8	19:	Half of 124	





Word Search

At the start of every lesson you will be asked to copy keywords into your book - we discuss what they mean too.

Some keywords you will see are hidden in the grid below, can you find them?

YRYAP \mathbf{F} т ZPMM F D 0 U М \mathbf{z} T. Ν U Ι Е F JXF U DΜ Е в U D 0 Ν D Ι М х Ε в DPJB KCDBRUF Т H Т в Y W J v UGZI С КНИ т Ι \mathbf{Z} М D L т v F s F S GΜ Y Ρ Ι Ρ Ι Q Y 0 \mathbf{Z} LNM А W s V D R ΥΚΟΡΕ L s Q R Ε Η х А т М W Ρ E W Κ Q Q D т С т Е С 0 D Κ ΙΑ Е s М Η R U т Ρ L Α С Е v А L U Е G 0 в J т D z D D Μ v в s ник INR S M D т к J D А М N N т RKF SL DLP UC М М G 7 Μ Ν 0 U M С Q 00 D А Ι Ρ Ν R Е х \mathbf{z} Ρ Ι J W \mathbf{z} Η М тМ ΝV Y Ε С С С Q Ν Α R J 0 Ν E M N т U Κ Ε Ι G т v R С F R N в Η D 0 H S Х \mathbf{z} Ν С L G Ρ Х А U А Ν s \mathbf{L} в W v Ι D Ι D E s Ε т F 0 U Κ \mathbf{L} W Q С т Ι R 0 Ν Ν Ν E Ρ \mathbf{z} J D 0 Ρ т CA R т в U s 0 R Κ в F D G F v Ν s Ν Ι т G в Ρ к G \mathbf{L} R W U D J R V 0 F v S G РОЬҮ G 0 Ν 0 Ι х R Ν R 0 L 0 U J v F КТВ Ν 0 v \mathbf{z} UD U v А к 0 D KDWEFYACLJT Е LE т J R L F Ν

Mr Caplen's favourite number is the number of spots found on (most) ladybirds ADD ASCENDING DECIMAL DESCENDING ESTIMATE HUNDREDS PERIMETER PLACEVALUE POLYGON ROUND SQUARENUMBER SUBTRACT TENS UNITS

> Mrs Plumb's favourite number is -2 x -5.

Completed our booklet? Well done!

You can check out nrich.maths.org for more problems to get you thinking...