

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.

## Meet the Team

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?


| Mr Milligan <br> Favourite Number: <br> Favourite topic: |
| :--- |


| Mrs Sinclair |
| :--- |
| Favourite Number: |
| Favourite topic: |

## Maths Puzzle

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?


[^0]

## Mathematics Equipment

Secondary Mathematics is so exciting!

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.

## DrFrost

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.


[^1]
## 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?


## 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.


## Hexagon Problems

CRESTWOOD

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?


## Cross Number

Use the clues to complete the cross number


## 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?

$$
\begin{array}{llllllllllllllllllll}
\text { Y } & R & Y & A & P & F & F & T & Z & P & M & M & D & Q & U & M & Z & L & N & U \\
F & I & J & X & F & U & D & M & E & E & B & U & D & O & N & D & I & M & X & E \\
B & D & P & J & B & K & C & D & B & R & U & F & I & H & I & B & Y & V & W & J \\
C & K & H & U & T & U & G & Z & I & I & Z & M & D & L & T & V & F & S & F & S \\
\text { Y } & P & I & Z & P & L & N & M & G & M & I & Q & A & W & S & Y & V & D & R & Q \\
H & X & A & T & M & Y & K & O & P & E & L & S & Q & W & R & E & P & E & W & K \\
C & O & D & K & Q & I & A & Q & D & T & C & T & E & E & S & M & H & R & U & T \\
P & L & A & C & E & V & A & L & U & E & G & Q & B & T & D & Z & D & D & M & J \\
J & V & B & S & H & U & K & I & N & R & S & M & D & D & A & T & M & N & K & N \\
Z & T & R & K & F & S & L & D & L & P & U & C & M & M & N & M & O & U & G & M \\
\text { W } & \text { O } & O & Z & D & A & I & P & C & N & R & Q & E & X & Z & P & I & H & J & M \\
E & M & N & T & M & N & V & Y & E & C & C & C & Q & N & A & R & J & T & Q & N \\
U & K & E & I & G & T & V & R & C & F & R & N & B & H & D & Q & H & Z & S & X \\
P & N & C & X & A & U & A & L & G & N & S & L & B & W & V & I & D & I & D & E \\
S & E & T & F & O & U & K & L & W & Q & C & T & I & R & Q & N & N & P & N & E \\
D & Z & J & D & Q & P & T & C & A & R & T & B & U & S & O & R & K & G & B & F \\
F & V & N & S & N & I & T & G & B & P & K & G & L & R & W & U & D & J & R & V \\
O & F & V & S & G & P & O & L & Y & G & O & N & Q & I & X & R & N & R & O & L \\
O & U & J & V & F & K & T & B & N & Q & V & Z & U & D & U & V & A & D & K & O \\
E & L & E & F & T & K & D & W & E & F & Y & A & C & L & J & T & J & N & R & L
\end{array}
$$

| Mr Caplen's favourite <br> number is the number <br> of spots found on <br> (most) ladybirds |
| :---: |

ADD
ASCENDING
DECIMAL DESCENDING
ESTIMATE
HUNDREDS
PERIMETER

PLACEVALUE POLYGON ROUND
SQUARENUMBER
SUBTRACT
TENS
UNITS


## Completed our booklet? Well done!

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


[^0]:    

[^1]:    $\partial$ Mr Milligan loves teaching
    Algebra! He wants you to solve this to find his
    favourite number
    I think of a number, I double the number.
    Then I take away 6. I multiply the number by 3. I divide by 2 and end up with 45 . What number did I start with?

