



MATHS NEWSLETTER



Welcome to Swalecliffe School's Term 1 Maths Newsletter

Welcome to the next issue of the Maths Newsletter! Each one will feature a mathematician, a maths strategy that we teach in school, some KS1 and KS2 maths challenges, top tips for helping your child with maths at home and maths book recommendations for you to enjoy with your child.

Mathematician

Alan Turing (1912-1954)

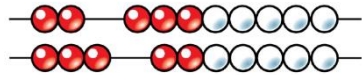
Alan Turing was a British mathematician. He made major contributions to the fields of mathematics, computer science, and artificial intelligence. He worked for the British government during World War II, when he succeeded in breaking the secret code Germany used to communicate.

In September 1939 Great Britain went to war against Germany. During the war, Turing worked at the Government Code and Cypher School at Bletchley Park. Turing and others designed a code-breaking machine known as the Bombe. They used the Bombe to learn German military secrets. By early 1942 the code breakers at Bletchley Park were decoding about 39,000 messages a month.



Maths Strategies

Calculation Strategy: Bead Strings



Different sizes of bead strings can support children at different stages of addition and subtraction.

Bead string to 10 and 20, are very good at supporting children to investigate number bonds and work systematically.

Bead strings to 100 can also support number bonds, as well as showing a link to adding to the next ten which supports a mental method of addition.

Bead strings to 100 can also support children in their understanding of multiplication as repeated addition.

They can also count forwards and backwards in multiples, moving the beads as they count.

When dividing, children build the number they are dividing and then group the beads into the number they are dividing by.



$$\begin{array}{l} 5 \times 3 = 15 \\ 3 \times 5 = 15 \end{array} \quad 15 \div 3 = 5$$



$$\begin{array}{l} 5 \times 3 = 15 \\ 3 \times 5 = 15 \end{array} \quad 15 \div 5 = 3$$



$$\begin{array}{l} 4 \times 5 = 20 \\ 5 \times 4 = 20 \end{array} \quad 20 \div 4 = 5$$

Top Tips



Here are some useful FREE apps and websites to support your child at home...



Topmarks

<https://www.topmarks.co.uk/>



Meet the
Numberblocks!



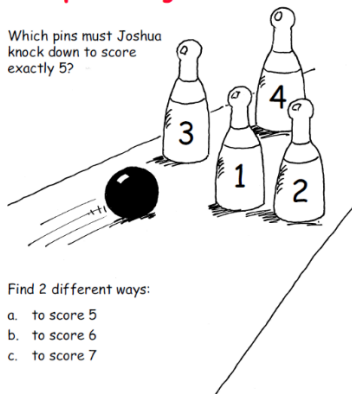
White Rose Maths:
One Minute Maths

KS1 and KS2 Maths Challenges

KS1

Four-pin bowling

Which pins must Joshua knock down to score exactly 5?



Find 2 different ways:

- to score 5
- to score 6
- to score 7

KS2

Dan the detective

- Dan the detective looked for a number. He found a two-digit number less than 50. The sum of its digits was 12. Their difference was 4. What number did Dan find?



- Dan found a two-digit odd number. One of its digits was half the other. The number was greater than 50. What number did Dan find?

Maths Book Recommendations

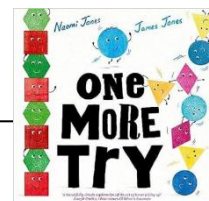
No matter how hard she tries, Triangle doesn't roll like the circles, or stack like the squares...so she sets off to find friends that look exactly like her. But when she finds the other triangles, playtime isn't as fun. She misses the shapes that roll and stack; she misses being different. So, she starts a new quest, one that gets all of the different shapes playing and having fun together!

The Perfect Fit by Naomi Jones



Circle loves the tower that the squares and hexagons have built and wants to make his own. But circles, diamonds and triangles are pointier, rounder and much wobblier - making a tower is not as easy as it looks! The shapes try and try but their tower just keeps tumbling down. Can Circle persuade them to have just one more try?

One More Try by Naomi Jones



Thank you for taking the time to read this term's Maths Newsletter; I hope that you have found it useful. I am always here to answer any questions that you may have about your child's learning in maths and offer any advice, as are your child's class teachers.

Miss Fry
Assistant Head and Maths Lead

