



Welcome to our maths newsletter!

Here at Wimbledon Chase we are very passionate about maths, not only learning in the classroom but also maths all around us.

Each of our newsletters will feature a maths event inside/ outside of school, a mathematician, a maths strategy/ resource that we use in school, some EYFS, KS1 and KS2 maths challenges, top tips for helping your child at home and some maths book recommendations for you to enjoy with your child.

We hope that you enjoy the first issue of the new academic year!

Learning in School:

To kick off the new academic year, all classes in school have been participating in 'positive mindset' maths lessons. This is to help build a classroom environment that **embraces mistakes as part of the learning process** thus developing resilience, confidence and risk-taking in future lessons.

These lessons included discussions, games, mini-challenges, using maths resources and questions with no 'right' answer.



Helping Your Child at Home:

Please don't forget about the White Rose Maths app called '1-Minute Maths'. This free resource is a quick and easy way to practise fluency skills (including number bonds and multiplication recall) from nursery up to Year 6.

If you haven't already, we would highly recommend downloading this free app for some quick maths fluency practice at home/ on the go.

Frances Allen:

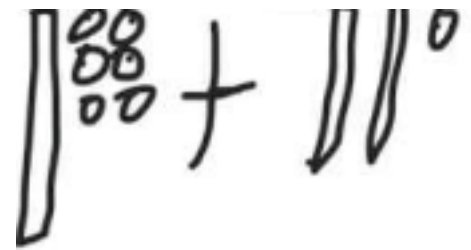
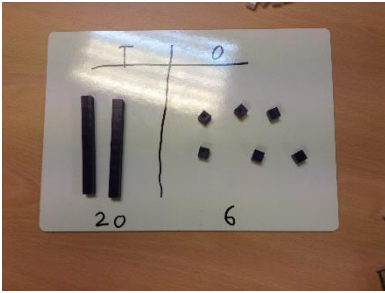
1932 - 2020

Frances Allen was a computer scientist whose work in helped develop much of what is still used today in modern computer programming. She also had a role in intelligence work on programming languages and security codes for the National Security Agency. She was the first woman to become an IBM fellow and the first woman to win the Turing Award.



Maths Resource: Dienes

Dienes are a **concrete** (physical) resource used throughout the school. They are small plastic cubes that are used to represent different amounts. In EYFS/ KS1, they are used to represent tens and ones up to 100. In KS2, they are used to represent numbers into the thousands. Once the children understand how dienes work, they can then draw them in their calculations (**pictorial**) as seen below.



Maths Book Recommendations:

KS1: *Penguin Place Value* by Kathleen L. Stone

<https://www.youtube.com/watch?v=SgeYSmcrHBc>

"Six boxes make sixty, now don't forget the four, that's 64 fish, to be sold at their store." Help this happy little family of penguins discover how many fish they've caught using your place value skills!

KS2: *On Beyond a Million* by David M. Schwartz

<https://www.youtube.com/watch?v=25z9ptNoZrg>

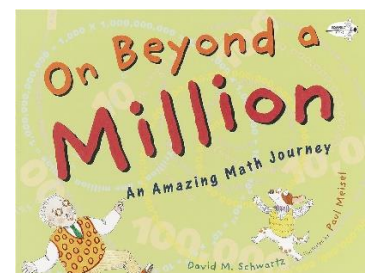
Professor X and his dog, Y, teach kids how to count exponentially by powers of 10 (1, 10, 100, 1,000, 10,000, etc.), beginning at 1 and working all the way up to a googol (a 1 followed by 100 zeros) and beyond. Real-life examples provide plenty of fun facts, such as how much popcorn Americans eat in one year, or how many hairs are on a square inch of a person's head to help kids understand our number system which is based on multiples of 10.

Penguin Place Value

A Math Adventure

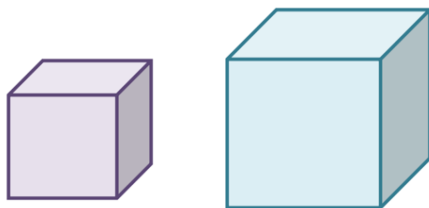


Kathleen L. Stone



EYFS and KS1 Challenge:

Kate has two boxes.



The mass of the small box is 28kg.

The total mass of the boxes is 100kg.

How much lighter is the small box than the large box?

KS2 Challenge:

A piece of ribbon is 5 metres long.



Gina and Liam each use part of the ribbon to wrap a present.

- Gina uses 1.6 metres
- Liam uses 256 cm

The remaining ribbon is cut into 7 equal pieces.

How long is each piece of ribbon?