



# MATHS NEWSLETTER



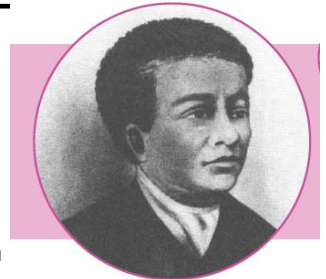
## Welcome to Swalecliffe School's Term 3 Maths Newsletter

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

#### Benjamin Banneker (1731 – 1806)

Benjamin Banneker was born in 1731 in Maryland, USA. Benjamin was educated at the Quaker School until he was old enough to work on his parents' farm. He was taught to read and write by his English grandmother.



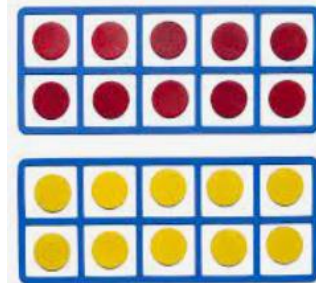
At 22 years old, Benjamin made a clock from wood; using a borrowed pocket watch as a model. The clock, which worked for the rest of his life, seemed to bring him some fame in the local community. He quickly acquired a reputation for writing and solving mathematical puzzles.

In 1788, Benjamin was lent some astronomy books and instruments by a neighbour. At the age of 57, he taught himself algebra, geometry, trigonometry and astronomy. He learnt how to use the instruments to make astronomical predictions.

### Maths Strategies

#### Calculation Strategy: Ten Frames

A ten frame is a two-by-five rectangular frame into which counters are placed to demonstrate numbers less than or equal to 10. Counters can be arranged in different ways to represent different numbers, which visually help your children develop strong number sense.



Younger children can start with smaller frames such as up to 5.

For example...

Arrange 4 items on a 5 frame – what do you notice?  
Prompt the children to notice that 4 is one less than 5 so there will always be one empty space.



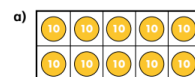
Printable Ten Frames can be downloaded from the Maths area on our School Website!

Go to Parents – Helping your Child - Maths

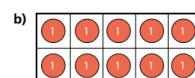
Older children can use ten frames to explore concepts like fractions and decimals.

For example...

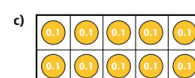
What is the total value represented by each ten frame?



100



10



1

## Top Tips



To help your child with maths at home, you could try some of these top tips:

### Help your child to become familiar with money!

In an increasingly electronic orientated world, children are having less and less exposure to real money. Here are some ideas to help children become more familiar and confident with money...

- \* Handling money is an important part of gaining confidence around it. Start by letting them see and handle coins and notes. Talk about the values, similarities, and differences.
- \* When out shopping... Compare prices out loud or ask them to tell you the different prices of products.
- \* Encourage children to pay for items when you are out and about.
- \* Introduce the idea of saving for something they really want. Together, regularly count the money they've saved.



## KS1 and KS2 Maths Challenges

### KS1

#### Ride at the fair



Lucy had a ride at the fair.  
Her Mum asked Lucy to pay less than 20p towards it.

Lucy paid exactly three coins towards the ride.  
How much did Lucy pay her Mum?

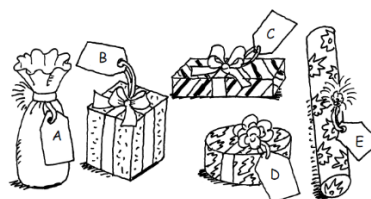
Find different ways to do it.



### KS2

#### Presents

Gurmit paid £21 for five presents.

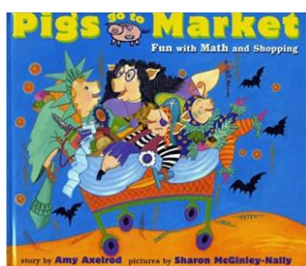


For A and B he paid a total of £6.  
For B and C he paid a total of £10.  
For C and D he paid a total of £7.  
For D and E he paid a total of £9.

How much did Gurmit pay for each present?

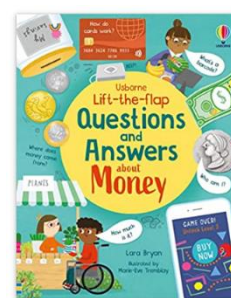
## Maths book recommendations

### Pigs go to Market By Amy Axelrod



The Pigs can't wait to throw their annual Halloween party. But when Grandpa and Grandma Pig eat all of the candy, the Pigs have to make a last minute trip to the market, where Mrs. Pig wins a free shopping spree. Will the Pigs bring home enough sweets to share with their friends? Or will they pig out and keep all of the candy for themselves? Join Mr. and Mrs. Pig and the piglets on their trip to the store for pounds of Halloween fun!

### Questions and Answers about Money By Lara Bryan



Understanding money today is so much more than learning about notes and coins. Where does money come from? Why do I have to save? What happens if I click BUY NOW? Find answers to important money questions, and some silly ones too in this friendly and useful book.

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