

Where will your mathematical knowledge take you?



2. Africa

Africa Targets	Date Achieved	Date Achieved	Date Achieved
Count in steps of 3 from 0, forward and backward			
Count in tens from any number, forward and backward			
Recall addition and subtraction facts to 20 fluently			
Know by heart all multiplication facts for the 2 times table up to 2x12			
Know by heart all multiplication facts for the 5 times table up to 5x12			
Know by heart all multiplication facts for the 10 times table up to 10x12			
Know by heart all division facts for the 2 times table up to 24			
Know by heart all division facts for the 5 times table up to 60			
Know by heart all division facts for the 10 times table up to 120			
Know by heart all pairs of multiples of 10 that total 100			
Know by heart all doubles of numbers to 20			
Know by heart all halves of even numbers to 20			



RUSHDEN
PRIMARY ACADEMY

Fluency Passport

Stage 2 Africa

Name: _____

Class: _____



Stage 2: Africa

Target	Example	Can your child answer these questions?
Count in steps of 3 from 0, forward and backward	3, 6, 9, 12, 15, 18 ... 30, 27, 24, 21...	Start at 30 and count back in 3s. 6, 9, 12. What number comes next?
Count in tens from any number, forward and backward	3, 13, 23, 33, 43 ... 98, 88, 78 ...	Continue this sequence. 45, 55, 65 ... Start at 150 and count back to 0.
Recall addition and subtraction facts to 20 fluently	$10+6$, $11+5$, $12+4$, $13+3$, $14+2$, $15+1$, $16+0$...	Which numbers could you add to give a total of 16? What is $15-3$? There are 14 birds in a tree. If 3 fly off how many will be left?
Know by heart all multiplication facts for the 2 times table up to 2×12	$1 \times 2=2$, $2 \times 2=4$ up to... $11 \times 2=22$, $12 \times 2=24$	What are 6 lots of 2? 9×2 ?
Know by heart all multiplication facts for the 5 times table up to 5×12	$1 \times 5=5$, $2 \times 5=10$ up to... $11 \times 5=55$, $12 \times 5=60$	What are 8 lots of 5? 10×5 ?
Know by heart all multiplication facts for the 10 times table up to 10×12	$1 \times 10=10$, $2 \times 10=20$ up to... $11 \times 10=110$, $12 \times 10=120$	What are 3 lots of 10? 4×10 ?
Know by heart all division facts for the 2 times table up to 24	$20 \div 2=10$, $18 \div 2=9$ down to ... $2 \div 2=1$	How many twos make 20? How many 2s in 6? How many groups of two can I make with 16 objects?
Know by heart all division facts for the 5 times table up to 60	$60 \div 5=12$, $55 \div 5=11$ down to ... $5 \div 5=1$	How many fives make 40? How many 5s in 35? How many groups of five can I make with 15 objects?
Know by heart all division facts for the 10 times table up to 120	$120 \div 10=12$, $110 \div 10=11$ down to ... $10 \div 10=1$	How many tens make 50? How many 5s in 20? How many groups of ten can I make with 30 objects?
Know by heart all pairs of multiples of 10 that total 100	$0+100$, $10+90$, $20+80$, $30+70$, $40+60$, $50+50$	Look at these multiples of 10 ... which pairs give a total of 100? What do I add to 40 to make 100?
Know by heart all doubles of numbers to 20	$1+1=2$, $2+2=4$ up to $19+19=38$, $20+20=40$	I swim 15 lengths on Monday and 15 lengths on Tuesday. How far do I swim altogether?
Know by heart all halves of even numbers to 20	Half of 20 is 10, half of 18 is 9 up to... Half of 2 is 1.	What number must I halve to get 12? Tom is 16. His sister is half his age. How old is she?

RPA Fluency Passport: Information for Parents

The mathematics curriculum has three key aims. These are to ensure that all pupils; become fluent in mathematics, can reason mathematically and can solve problems. As an academy, over the last year we have been working hard to develop problem solving activities within lessons and encouraging children to explain their thinking and give reasons for their choices. The new 'Fluency passport' allows us to work in partnership with parents and carers to focus on the third key aim, fluency.

Our passport is broken down into each of the inhabited continents of the world, each focusing on different mathematical skills linked to the National Curriculum. Before a passport is issued to our youngest children, they will have to complete a series of challenges known as 'Getting Ready to Travel' which is based on the EYFS curriculum targets.

The Fluency passport will be used to help children master key mental arithmetic skills. They will be required to demonstrate quick recall and understanding of the different skills a number of times before staff will sign these off and allow the children to progress.

The key skills for each continent are listed alongside examples of how this skill can be demonstrated and example questions which can be used to test children's ability and understanding.

Targets will be assessed termly and upon completion of a continent at the end of the year, children will receive a certificate to take home which celebrates their success. The continents and targets will be completed in the order; Europe, Africa, Asia, Australia, North America, South America and finally Globetrotters.

Thank you in anticipation for your support.

Happy travelling!