# ST. ANDREW KS2 Mathematics PRIMARY SCHOO Supporting your child

## Teaching for Mastery

Mastering maths means pupils acquiring a **deep**, **long-term**, **secure and adaptable understanding** of the subject.

The phrase 'teaching for mastery' describes the elements of classroom practice and school organisation that combine to give pupils the **best chances of mastering maths**.

Achieving mastery means acquiring a solid enough understanding of the maths that's been taught to enable pupils to move on to more advanced material.

### Number bonds

Instant recall of number bonds within 20 and 100





## Composition of Number

Being secure with...

- Place value of a number
- Relationship between the parts and the whole.

Ten Thousands (T Th)	Thousands (Th)	Hundreds (H)	Tens (T)	Ones (O)
•		::	::	
1	3	5	4	8

Place value of 1 =  $10\ 000$ Place value of 3 =  $3\ 000$ Place value of 5 = 500Place value of 4 = 40Place value of 8 = 8





## Counting

Skip counting from any number

Pattern spotting

Identifying odd and even numbers

SKIP COUNTING by 4's									
4	8	12	16	20					
24	28	32	36	40					
44	48	52	56	60					
64	68	72	76	80					
84	88	92	96	100					

# Multiplication Tables Check

Summer of Year 4

All tables up to 12

6 seconds to complete each question



## Multiplication Tables

#### Number Skills



Number Bonds



Times Tables

Powers of Ten

Add & Subtract

More

Year 2 - 2, 5 and 10 times tables Year 3 - 3, 4 and 8 times tables Year 4 – 6, 7, 9, 11 and 12 times tables Maths shed **Regular practise** Maths Passports

### Time

By the end of Year 4 children should be able to:

- Read the time to the nearest minutes on an analogue clock and a clock with roman numerals.

- Convert time between an analogue clock and a digital, 24-hour clock.

- Bus and train timetables.



### Money

Use coins to make an amount

Calculate change from an amount

Allow children experiences with money



### Websites

Mathletics

Maths Shed

White Rose 1 minute maths



## Be positive about maths

- Involve your child in everyday maths; talk about numbers/ maths around you.
- Play lots of games, including ordinary board games.
- It's all about confidence For children to be good at maths, they need to feel confident about giving it a go.
- Positivity is the key Regardless of your own experiences on maths at school.
- Do maths together every day

#### 2019 national curriculum tests

#### Key stage 2

#### **Mathematics**

#### Paper 1: arithmetic

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				

\_

36 Questions 30 Minutes

### 2019 national curriculum tests Key stage 2

#### **Mathematics**

Paper 2: reasoning

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				



2019 national curriculum tests
Key stage 2

#### **Mathematics**

Paper 3: reasoning

First name					
Middle name					
Last name					
Date of birth	Day	Mont	n	Year	
School name					
DfE number					

23 Questions 40 Minutes





Fractions x integers Around 50% correct.

- Thrown by x
- Incomplete calculations



KS2 Arithmetic paper



Percentages of amounts Around 65% correct

- Drops when the integer isn't a multiple of 100
- Less fluent children struggle in general with powers of 10.



Multiplying integers by decimals Around 65% correct

- Powers of 10 and place value
- Less confident revert to written strategy





+ and – of fractions (mixed numbers)

- x knowledge (common denominators)
- Improper fractions
- visualising

Long division?

### **Reasoning Papers**

- Application of the arithmetic
- Geometry/Shape (angles)
- Algebra
- Ordering, comparing and rounding
- Weights and measures (conversions)
- Ratio, scale and proportion

1

Sale £1,100 off



What is the sale price of the car?

£



22 Six

Six identical right-angled triangles are arranged to make a rectangle.



Calculate the length of the rectangle.

cm

What can you do to help at home?

• Practise (whenever and wherever there's an opportunity)

 $\geq$ 

- Use everyday situations
- Passports they are linked to curriculum
- Mathletics
- Maths Shed
- Be positive
- Small things daily
- Encourage