

Year 2 Maths Curriculum Meeting

September 2023



Primary Stars Maths

- *This year we have chosen to implement Primary Stars Maths as a programme of study across Year 1 and Year 2.
- *It follows White Rose Maths (a scheme designed to make maths accessible for all, regardless of skill or understanding) which is in line with the National Curriculum targets and objectives.
- *This scheme allows us to follow the mastery approach to teaching, which originates from Singapore. Singapore continues to rank amongst the highest in the world in maths due to this approach.
- *The main positives around this scheme is that it allows and encourages team work, problem solving, reasoning and important discussions around maths.



CPA (Concrete, Pictorial and Abstract)

- *Most of all, this mathematical approach allows us to use CPA within each lesson. It should be recognised that all children have different learning styles.
- *We believe that all children are capable of achieving the same learning objectives and understanding within maths as long as they are given the correct tools and resources.





Concrete:

resources such as cubes, counters and shapes

Pictorial:

pictures, drawings

Abstract:

numbers and symbols



CPA in action

What will my child learn? Topic Yearly Overview

Year 2 – Yearly Overview

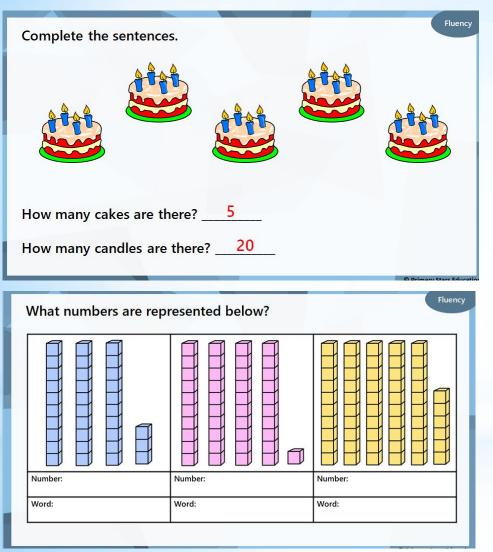
| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--|--------|--------|----------------------|----------------------------------|--------------------|--|-------------------|-----------------------|---------------|---|---------------|
| Autumn | Number: Place Value | | | | Number: Addition and Subtraction | | | | Measurement: Money | | Number: Multiplication and Division | Consolidation |
| Spring | Number: Multiplication and Division | | | Stati | stics | Geon Properties | netry: s of Shape | Number: Fractions | | | | |
| Summer | Measurement: Geometry: Position Length and Height and Direction | | | ation and solving | Measurement: Time | | Measurement: Mass, Capacity and Temperature | | | Consolidation | | |

Small steps for each lesson

Year 2 - Yearly Overview - Autumn (2020 onwards)

| | Week 1-3 (BLOCK 1) | Week 4 – 8 (BLOCK 2) | Week 9 – 10 (BLOCK 3) | Week 11 (BLOCK 4) | Week 12 (BLOCK 5) |
|---------------------------------|--|---|---|--|----------------------|
| | Number: Place Value | Number: Addition and Subtraction | Measurement: Money | Number: Multiplication and Division | Consolidation |
| White Rose Maths Small Steps | Court forwards & toolower's writen 20 Tens and previous writen 20 Court forwards & histowards writen 50 Court objects to 100 and read and write numbers in numbers la and words. Represent numbers to 200. Tens and once write a part whole model. Tens and once write a part. Compare objects Court objects and numbers. Court in 25 Court in 26. | Pact families - Addition and subtraction bonds to 20. Chuck calculations. Compare number sentences. Related facts. Bonds to 100 (sens). Add and subtract 1s. J0 mens and 10 less. Add and subtract 10s. Add two 2-digit another from a 2-digit number - crossing 10. Subtract a 2-digit number in one crossing 10 - add ones and add tems. Subtract a 2-digit number in one 2-digit number - not crossing 10. Subtract a 2-digit number from a 2-digit number - not crossing 10. Subtract a 2-digit number in one a-digit number - not crossing 10 - subtract ones and tems. Find and tems. Print and tems. Add three 1-digit number in one in a 2-digit number - crossing 10 - subtract ones and ters. Add three 1-digit number in one in a 2-digit number - crossing 10 - subtract ones and ters. Add three 1-digit number in one in a 2-digit number - crossing 10 - subtract ones and ters. | Recontinence constant a notice Count money – period. Count money – pounds (notes and coins). Count money – notes and coins. Select money. Make the same amount. Compare money. Pind the difference. Pind the difference. Pind change. Taxo-step problems. | Make enjuäl groups. Add equal groups. Make armys | All |
| National Curriculum Link | Read and write numbers to at least 100 in numerals and in words. Recognite the place value of each digit in a two digit mumber (tern, ones) identify, represent and estimate numbers using different representations including the number line. Compare and order number from 0 up to 200; use <.> and e signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. | Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and ten; two two-digit numbers; adding three one-digit numbers. Shee that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Solve problems with additions and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. | Recognise and use symbols for pounds (£) and pence (p); condoine amounts to make a particular value. Find different combinations of colm. that equal the same amounts of money. Solve simple problems in a practical context involving addition and subfraction of money of the same unit, including giving change. | Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication (s), division (+) and equals (+) sign. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, iscluding problems in contexts. Show that the multiplication of does not division of one number by another cannot. | All |
| - 2019 - K | Read and write numbers in numerals up to 100. Partition a two-digit number into tens and ones and demonstrate and understanding of place value, though they may use structured resources to support them. | Add and subtrast (one digit numbers) explaining their method verbally in pictures or using apparatur. Recall at least four of the six number bonds for 10 and reason about associated facts. | Know the value of different coins. | N/A | |
| ants 2018 - ► € | Read scales in divisions of ones, twos, fives and tera. Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus. | Recall all the number bonds to and within 20, and use these to reason with and cabulate bonds to and within 20, recognising other associated additive relationships. | Use different coins to make the same amount. | Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating and understanding of commutativity as necessary. | All |
| TAF Stateme | Read scales where not all mambers on the scale are given and estimate points in between. Use reaconing about numbers and relationships to solve more complex problems and explain their thinking. Solve unlamiliar word problems that involves more than one step. | Use reasoning about numbers and relationships to solve more complex problems and explain their thinking. Solve unfamiliar word problems that involves more than one step. | Une reasoning about numbers and relationships to solve more complex problems and explain their thinking. Solve unfamiliar word problems that involves more than one step. | Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts. Use reasoning about numbers and relationships to solve more complex problems and explain their thinking. Solve unfamiliar word problems that involves more than one step. | |

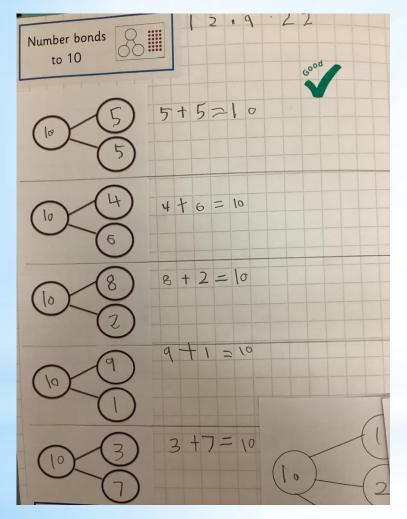
Lesson Structure



*Each lesson has a dedicated, child friendly PowerPoint that progressively builds upon a concept. This ensures a greater understanding. The children are encouraged to see numbers represented in many different ways.

* The first part of the lesson focuses on basic fluency which is an essential skill for the children to have. This understanding ensures they can then apply their learning when problem solving and reasoning.

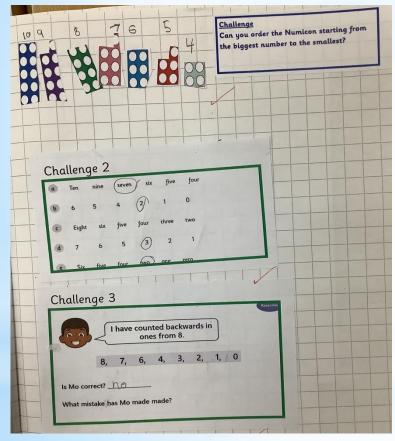
Fluency



* Children will then move to their maths journals to complete a lesson related to the teaching PowerPoint. They will again initially focus on fluency as their task, which can be shown here.

- * Children can access this lesson objective using CPA, as we discussed earlier, whatever best suits their learning style. They are able to choose on a daily basis how they would like to learn.
- * We have an excellent standard of presentation within school and encourage children to consistently do this, this will help with place value in the future, placing numbers in the correct column.
- * Another focus is also number formation, which is practised throughout the beginning of Year 1.

Problem solving and reasoning

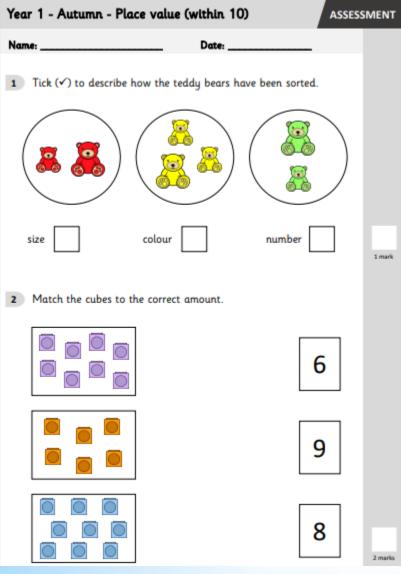


Throughout the year children will be encouraged to explain WHY and answer in a sentence. * If a child excels within the fluency part of the lesson and is confident with the concept they have just learned, we will provide them with a problem solving and reasoning challenge.

- * This allows them to take the concept they have learned and explore it further using different skills and knowledge.
- * They enjoy talking and discussing different possibilities.

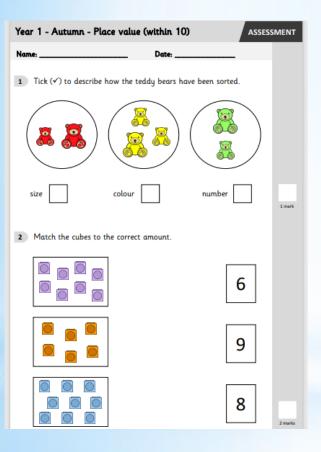
* All children are exposed to challenges as we use them as a lesson plenary, to ensure that all children in class are accessing problem solving and reasoning. We clearly discuss different strategies and which one was the most efficient.

Assessment



- * The first block of learning is place value with numbers to 10.
- * Children learn about numbers to 10 on a deeper level and start to understand methods that will help them accomplish trickier maths in the future. For example, when they know 3+7=10, they will see the pattern of 30+70=100 much easier.
- * Children will complete a preassessment before any teaching has taken place. This allows us to see the clear progress they have made after the teaching input.

Assessment Continued...



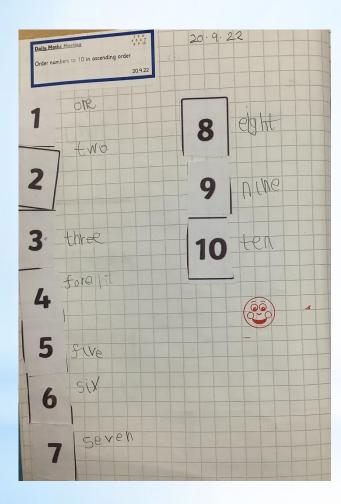
* Children will then complete the same assessment again at the end of a block.

* This allows us to see where each child has a strength and understanding, as well as some gaps that may need to covered again and strengthened.

* We are extremely fortunate to have a teaching assistant in each class throughout Year 1. They are able to pre-teach concepts, or work through a tricky concept with your child if it is clear they need an extra helping hand.

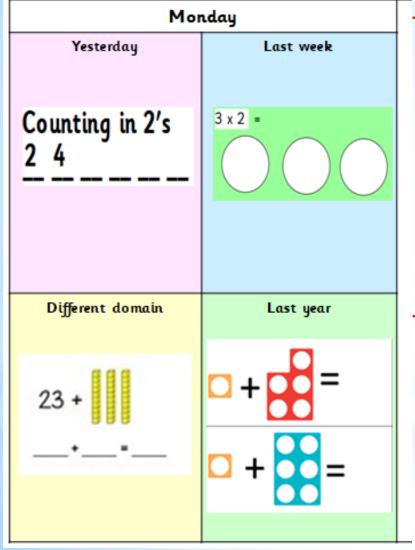
*We may show them how to access the learning objective in a different way using concrete objects or pictures, to visually conceptualise a concept.

Daily Maths Meetings



- * In addition to a daily maths lesson, we also teach a 'daily maths meeting'.
- * As your child will be focusing on a different 'block' of learning over a period of weeks, for example; place value, we feel it is important to teach other basic skills to allow your child grasp many concepts.
- * We may focus on counting in 2's, 5's and 10's or recapping different 2D and 3D shapes.
- * Here is an example of how they are presented in books.

Memory Joggers



* A huge focus from both Ofsted and the national curriculum is the 'long term memory'. Children are not expected to retain information if they have only been taught it once. It is important to revisit concepts so they may be embedded in their long term memory, allowing them to build upon each concept and explore it further.

* This is an example of what your child will complete. Something they have learned in Reception, something they learned yesterday, something they learned last week and finally another topic altogether.

Maths Across The Curriculum

| Material | Amount of liquid (ml) | | |
|-----------|--|--|--|
| paper | lonl | | |
| balloons | 18ml 4ml | | |
| cloth | | | |
| tin foil | Ant | | |
| faill ait | that the tin goil was I think the blocks were | | |

| Our preactions Large Small Funnel Funnel | | Funnel Funnel with with sponge paper | | Funnel with kitchen roll | | ir results | | |
|--|-----|--------------------------------------|-------|-----------------------------|----|----------------------|--|--|
| 145 | | IM 305 | Im 35 | Im 323 | 1 | large Funnel 145 | | |
| \checkmark | | | | | 2 | Papper funnel 1M35 | | |
| | | | | | 3 | Sponge funnel 305 | | |
| | X | X | | | 4 | Richen Sunnel 1mg | | |
| | / ` | | | | F | small funnel am 38 5 | | |
| Which funnel do you Which funnel do you | | | | 12 | -1 | | | |
| | | 1,0 | | | | | | |

* Where possible, we feel the need to link maths across the curriculum is an invaluable experience for children. This way, they can see how subjects are interlinked and have an important connection with one another.

* Here is an example of how maths is used in Science to gather, analyse and compare data.

How can you help at home?



You can help your child by finding and talking about maths in everyday situations.

For example, a shopping trip is rich in mathematical opportunities, such as: Spending money, calculating change and working out which offers give the best value for money.

Empty packaging can provide your child will immediate access to 3D shapes.

Counting in 2's, 5's and 10's to later support multiplication.

Asking what comes before and after a given number so children recognise place value in 2-digit numbers.

- * Thank you for attending to understand how your child will access maths in our school.
- *We believe maths is a key subject in life that can open many gateways and experiences for your child throughout their life.
- * Teaching it is a passion for all teachers and we are proud to offer all children ways to learn that is best suited to them.
- * We as a staff appreciate the hard work you do as parents to make your children willing learners and participants!



"will enable children to reach their full potential"

Any guestions?