

TERM 2 OVERVIEW YEAR 2 – Maths

Term 2 Book(s) – Man on the Moon						
Topic(s) – Addition/S	ubtraction, Money, Multiplication/Division.	Guide Time = 6weeks				
Assessment:	White Rose end of unit assessments Teacher judgements Fortnightly arithmetic tests	Very Important Points (VIPs): <u>Addition/Subtraction</u> - Addition facts for the number 10 can be used to help calculate				
Links to prior learning (sequencing) and canon book	Addition/SubtractionThe children will have also learnt to represent and use number bonds and related subtraction facts within 20. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one- digit and two-digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \Box - 9$.Money The children be able to recognise different coins and will have learnt the value of different coins. The children will have some knowledge of place value to match coins with equivalent values e.g. 10 1p coins is the same as 1 10p coin.Multiplication/Division The children will have learnt to count in steps of 2, 5 and 10 in Year 1. The children will have some basic knowledge of multiplication and division.	 addition facts to 100. A number can be partitioned into 2 or more parts. Number bonds show how numbers can be partitioned or combined. When adding, the mathermatical symbols used are + and =. Addition can be done in any order, subtraction cannot. When you add two numbers, they equal a bigger number. Always start with the bigger amount/number when subtracting. Whe subtracting, the mathermatical symbols used are - and =. When you add or subtract zero, the total stays the same. When you subtract a number from a total, it gets smaller. Money Money is what people use to buy things and services. Money is what many people take for selling their own things or services. Different currecny is used all over the world but in England we use pounds and pence. 100 pence makes a pound There are 8 different coins that are used in the British currecny and are four different notes used. Fifty pound notes are not very common. 				
Links to other learning (cross fertilisation)	Links to PE will be made through Active Maths (AM) activities and/or using counting 0-100 within warm ups (counting in 2,3,5 and 10s while doing star jumps, lunges, addition/subtraction Hero's in AM) and games (keeping track/score).	 <u>Multiplication/Division</u> Multiplication can be done in any order, division cannot. When you multiply the number gets bigger. Multiplication is the same as repeated addition. The symbols used for multiplication are x and =. 				



	Links to science and geography will be made through counting	- When you divide the biggest number always goes first.
	in 1s, 2s, 3s, 5s and 10s in tally charts, block/ bar graphs to	- When you divide the number gets smaller.
	collect and input data clearly.	 Division is the inverse (opposite) of multiplication.
		 The symbols used for division are ÷ and =.
	The skills taught this half term will be applied to other units	 Even numbers can be shared into 2 equal groups, odd numbers
Links to future learning	throughout the year. Children will be counting in 2s, 5s and	cannot.
	10s and will be introduced to counting in 3s – these basic	
	skills will be needed when multiplying/dividing, problem	Fat Questions:
	solving and fraction work.	Addition/Subtraction
Character/Wider	Thematic Questions:	- Can you have two different values on either side of an equals sign?
Development (150	The World Beyond Us:	Explain your answer
Development (50	Do you think it's possible to know how many poople there are	Why do we need to learn to add?
things', cultural capital,	in the world? How do you think people could find this out?	- Why do we need to learn to added to a higger number successfully?
skills)	In the wond? How do you think people could lind this out?	- Can a smaller number be added to a bigger number successfully?
	The Mondal Annual Lie	- Can a bigger number be taken away from a smaller number
	Ine world Around Us:	Successfully? Do you know what that might look like?
	How do you use your maths skills when you go into	
	Pontefract? There are numbers everywhere. Can you think of	<u>Money</u>
	some examples of where you might see numbers when out	 Why do different countries have different currencies?
	and about?	- Which is the richest country in the world? Explain your answer.
		- If you could create a new coin what would it look like and what
	Modern Britain:	amount would it be for? Explain your answer.
	Can you think of how addition/subtraction/	- Why do we need money?
	multiplication/division beins people in their jobs and daily	- What is money used for?
	lives? What do we have to help us with maths now that people	
	did not have 100 years and 2	Multiplication/Division
	ulu not nave 100 years ago?	
	Haaldas Dadiaa Olihaaldas Missia	- why do we need to learn to multiply and divide?
	Healthy Bodies & Healthy Minds:	- When might you use your times tables facts in everyday life?
	How can we use maths when keeping fit? What can we do if	- Can you share an odd number? Explain your answer.
	we are finding maths hard or it is making us feel sad/angry?	
	Culture:	
	Does everyone from around the world count in the same	
	language and use the same numbers? Do you think it would	
	be better if we did? Why?	
	Technology in Action:	
	How is knowledge of mathe used in computer games? Can	
	Thow is knowledge of mains used in computer games? Call	



you think of a game where you need to add/subtract/multiply/divide?

OVERVIEW OF TEACHING SEQUENCE

Key Facts/Learning	Learning Focus or Key Question	Learning Outcomes (NC)	Key Words/ Vocabulary	Greater Depth/SEND	Misconceptions	Activities and Resources
Addition / Subtraction (Weeks 1-2)	Subtract a 2-digit number – not crossing ten. Subtract a 2-digit number – crossing ten – subtract ones and tens. Bonds to 100 (tens and ones). Add three 1- digit numbers.	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 tens; two two-digit numbers; adding three one-digit numbers. Show that addition of two numbers can be done in any order	Add Addition Subtract Subtraction Equals How many Left Altogether Plus Minus Digit Number	GD: Children are introduced to larger numbers when applicable. But it is important that the GD focus is on mastery of the skills rather than moving onto the next stage of learning quicker. Children are introduced to problem solving and reasoning questions which require sentence responses. Children are taught how to 'prove it' and use the word 'because'.	Children may not 'careful count'. Children may not recognise some 2 digit numbers. Children may get confused between the 'tens' and 'ones'. Children may get confused between addition and subtraction. Children may forget to start with the largest number when subtracting. Children may get confused when subtracting and crossing ten.	See Y2 folder for slides and resources for 8 lessons. Links to resources and folders White Rose Maths https://wrm-13b48.kxcdn.com/wp- content/uploads/2019/SoLs/Primary/Autumn2019- 20/Year-2-Autumn-Block-2-Number-Addition-and- Subtraction.pdf Trust Shared folder – Year 2 Classroom Secrets folder Third space folder White Rose Maths folder



(consubtinum and Solv with subticond and reprincluinvo quai mea their know men met Rec the i relatibetw and and chec and num	mmutative) and btraction of one mber from other cannot. ve problems in addition and btraction: using increte objects d pictorial resentations, luding those olving numbers, antities and asures; applying ir increasing owledge of intal and written thods. cognise and use inverse ationship ween addition d use this to eck calculations d solve missing mber problems.	SEND: Activities are made more 'concrete' when appropriate and additional resources are used to support visual and kinaesthetic learning. Children focus on numbers 1-10 where appropriate and given support when using numbers to 20. Children complete a majority of fluency style questions and are introduced to problem solving as an oral group activity. Adults model how to verbally use the word 'because'.		
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<u>Money</u> (Weeks 3-4)	Count money – pence Count money - pounds (notes and coins) Count money – notes and coins Select money Make the same amount Compare money	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	Money Amount Coins Notes Pounds Pence Total Compare Change Difference	GD: Children are introduced to larger values / amounts when applicable. But it is important that the GD focus is on mastery of the skills rather than moving onto the next stage of learning quicker. Children are introduced to problem solving and reasoning questions which require sentence responses. Children are taught how to 'prove it' and use the word 'basquae'	Children may not 'careful count'. Children may confuse the value of certain coins. Children may think that some coins are bigger / smaller in value because they are bigger / smaller in size. Children may not know how many pence and in £1 etc.	See Y2 folder for slides and resources for 8 lessons. Links to resources and folders White Rose Maths <u>https://wrm-13b48.kxcdn.com/wp-</u> <u>content/uploads/2019/SoLs/Primary/Autumn2019-</u> <u>20/Year-2-Autumn-Block-3-Measurement-</u> <u>Money.pdf</u> Trust Shared folder – Year 2 Classroom Secrets folder Third space folder White Rose Maths folder
	notes and coins Select money Make the same amount Compare money Find the total	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	Change Difference	learning quicker. Children are introduced to problem solving and reasoning questions which require sentence responses. Children are taught how to 'prove it' and use the word 'because'. SEND:	in size. Children may not know how many pence and in £1 etc.	Trust Shared folder – Year 2 Classroom Secrets folder Third space folder White Rose Maths folder
	Find the difference Find change Two-step problems			Activities are made more 'concrete' when appropriate and additional resources are used to support visual and kinaesthetic learning.		



				Children focus on 1 pence and counting in 1's to make amounts. Children complete a majority of fluency style questions and are introduced to problem solving as an oral group activity. Adults model how to verbally use the word 'because'.		
<u>Multiplication/</u> <u>Division</u> (Weeks 5-6)	Recognise equal groups Make equal groups Add equal groups Multiplicati on sentences using the x symbol Multiplicati on sentences	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 tables and write them using the multiplication (x), division (÷) and equals (=) sign.	Equal Same Groups Multiply Multiplication Lots of Divide Division Array Times	GD: Children are introduced to larger values / amounts when applicable. But it is important that the GD focus is on mastery of the skills rather than moving onto the next stage of learning quicker. Children are introduced to problem solving and reasoning questions which require sentence responses.	Children may get confused when counting in steps of 2, 5 and 10. Children may get confused between multiplication and division. Children may think they can do division in any order, like multiplication. Children may confuse multiplication for addition – x / +	See Y2 folder for slides and resources for 8 lessons. Links to resources and folders White Rose Maths <u>https://wrm-13b48.kxcdn.com/wp-</u> <u>content/uploads/2019/SoLs/Primary/Autumn2019-</u> <u>20/Year-2-Autumn-Block-4-Number-Multiplication-</u> <u>and-Division.pdf</u> Trust Shared folder – Year 2 Classroom Secrets folder Third space folder White Rose Maths folder



from	Solve problems	Children are taught
nicturos	involving	how to 'prove it'
pictures	multiplication and	and use the word
	division, using	(because)
Use arrays	materials, arrays,	because .
2 times- table 5 times- table 10 times- table	repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	SEND: Activities are made more 'concrete' when appropriate and additional resources are used to support visual and kinaesthetic learning. Children focus on 1 pence and counting in 1's to make
		Children complete a majority of fluency style questions and are introduced to problem solving as an oral group activity. Adults model how to verbally use the word 'because'.



Context (big picture learning)

Mathematics is an important, creative discipline that helps us to understand and change the world. We want all of our children within the Pontefract Academies Trust to experience all that mathematics has to offer and to develop a sense of curiosity about the subject with a clear understanding. When they leave us we want them to continue their love of maths and use it continuously and positively in their future lives.

We foster a positive 'growth mind-set' attitude and we promote the fact that we believe that all children can achieve in mathematics. We teach for secure and deep understanding of mathematical concepts through manageable, bespoke steps and cross fertilize at every opportunity. VIPs (Very Important Points) are implemented in every lesson to ensure knowledge and skills are revisited and retained over time.

We use mistakes and misconceptions as an essential part of learning and provide challenge through rich and sophisticated reasoning and problem solving activities. At our school, the majority of children will be taught the content from their year group only. They will spend time becoming true masters of content, applying and being creative with new knowledge in multiple ways.

Place Value teaches the children the meaning of numbers. Children consolidate their understanding that the position of a digit within a number, shows its value. They also work towards partitioning numbers, firstly within 100 and then beyond as the children progress through Key Stage Two. Children need to have a thorough understanding of comparing and sequencing numbers that they are confident with (within 100) so they are able to apply these skills as they learn to tackle bigger numbers. Children need to consolidate the basic concept of addition and subtraction (within as well as crossing 10s to move on to 100s (KS2)) and the related maths symbols. They will then apply these skills across future units and cross-fertilise these skills in other subjects. As they grow up they will use these skills in their everyday life. For example: when shopping and handling money and wages; when writing cheques; working out test scores; measuring and weighing within the workplace...

Resources

Trust shares > Primaries > Departments > KS1 > Planning Cycle B > Autumn 2 > Maths > Year 2

Links to resource folders:

White Rose

Classroom Secrets

Third Space

Year 2 Skeleton Slides

Complete resources: