

Year 3 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Wee	k 9	Week 10	Week 11
Phase 1	Numbe	r and	Additio	n and Subtra	action		Multip	lication	and		Measu	res
	Place Va	alue					division					
Phase 2	Multiplication and Ge			Geometry		Fractio	ons					
	division											
Phase 3	Measures Fractions			IS		Meas	ures					
Phase 4	Statistic											
(EoY)												

Ongoing throughout the year:	Time
8. 8. 1.8. 1.1.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
	Multiplication facts
	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
	Counting
	Count from 0 in multiples of 50 and 100



Year 3 Phase 3 Objectives

Measures - timeFractionsTell and write the time from an analogue clock, including using Roman numerals, 12-hour and 24-hour clocks.Recognise and show, using diagrams, equivalent fractions with small denominators.MeasuresMeasu
minute and the number of days in each month, year and leap year. Compare durations of events [for example calculate the time taken



Year 3 MTP - Phase 3

Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures – Time	Tell and write the time from an analogue clock, including using Roman numerals, 12-hour and 24-hour clocks.	What time is shown on the analogue clocks below? Draw the times on the blank analogue clocks. a) Five past four ten b) Twenty five to ten c) Half past seven Match the times on the digital clocks to the analogue clocks.	The clock only has one hand. What time could the clock show? Explain your choice carefully. Kim is explaining how to tell the time on a 24 - hour clock. Look at the hour number and minus 12′ Do you agree with Kim? Prove your answer by showing examples. Leila is telling the time from an analogue clock. The hour hand is pointing to XI the minute hand is pointing to XII' What time is it?	What is different about the clock below? Can you still use it to tell the time? On a digital clock, there are certain times when the numbers are in consecutive order, in counting order, either forwards or backwards eg 1:23 or 5:43 How many times during a day does this happen? Fill in the gaps in the story with the digital time. Lucy gets up at quarter past eight in the morning She has her breakfast at twenty to nine Lucy goes shopping at quarter to eleven and returns home at twenty past one in the afternoon Can you write your own story about your day?



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Domain Measures – Time	NC Objectives Estimate and read time with increasing accuracy to the nearest minute.	Write the time on the clocks to the nearest minute. Draw the hands on the clock to show the time below. The property of the clock to show the time below. The property of the clock to show the time below. The property of the clock to show the time below. The property of the clock to show the time below.	Example tasks reasoning Look at the clock face below. Can you explain why there are two sets of numbers on it? What do they mean? Farah is telling the time. She says this clock says it is ten past one. Is Farah correct? Prove it.	These clocks have been reflected in a mirror. Can you work out what time they show? Simon gets up at half past nine. Can you order the times he sees on the clocks during the day until he goes to bed at 22:45? At twelve o'clock both the minute
		minutes past 4	2 8 7 6 5 4 8 8 9 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	hand and hour hand are pointing in exactly the same direction. At what other times during the day does this happen? Can you write down all the times and draw them on an analogue clock?



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures – Time	Record and compare time in terms of seconds, minutes and hours.	Use a stopwatch to record the following events: a) Time taken to run all the way around the playground. b) Time taken to complete 10 mental maths questions. c) Time taken to do 20 star jumps. How long did each event take? Which took the longest? Would you record your time in seconds or minutes?	 Dan takes 153 seconds to skip around the playground. Tilly takes 2 minutes 23 seconds. Who is the quickest? Explain how you know. Cut up the cards below and turn them over. Try to find a matching pair of an activity and the length of time you think it takes. Does everyone agree with the time it takes? How can you prove it? 	Saira goes to three different activities a week. They all start at 6 o'clock but are different distances away. Can you match the day and time she leaves with the activity she is going to? Tuesday
		In 1913 the world record for the quickest mile run by a man was 4 minutes 14 seconds. The world record is currently is 3 minutes 43 seconds. What is the difference in times?	Time taken to count from 1 to 10 Time taken to brush your teeth Time taken	Wednesday Football 35 minutes away
		Can you find and compare other world records?	to run 100m 3 minutes	Thursday Swimming 25 minutes
		How long do you think it would take you to run mile?	Time taken to travel to Spain.	5:25pm away
			Time taken to watch a football match.	One day, Saira is 13 minutes late for swimming. What time did she leave her house that day?
				Saira changes to a later ballet class that starts at 6:40. What time will she have to leave her house now?



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Domain Measures – Time	NC Objectives Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight.	Sort the times below into am and pm. 5 o'clock in the morning. 3 o'clock in the afternoon. 08:45 16:43 Can you write one more time to join each group? Use the vocabulary cards below to fill in the gaps about Sita's	Caroline says: "Any time that it is dark is pm and any time that it is light is am." Do you agree? Explain your thinking.	Match the words to their meanings. O'clock Time between midnight and noon Time from noon to evening
		Sita's alarm went off at sevenin the She set off to school at eight She arrived at 8:35 After herlessons, she had lunch at In theshe learnt about the Victorians. School finished at 3:25 Sita went to bed at seven but woke up five hours later at when it was very dark.	Can you complete the sentence below in 2 different ways? 12 o'clock in the can also be called Explain the difference in the two sentences.	am 12 o'clock at night Post meridiemafter noon Middle of the day
		noon a.m. p.m. morning afternoon o'clock midnight		midnight Ante meridiembefore midday Used to specify the hour



Domain	NC Objectives	Exam	Example tasks fluency				Example tasks reasoning	Example tasks problem solving											
Measures – Know the number of seconds in a minute and		Cut up th a matchi When yo The play wins!	ng gan u get a	Rehan says 'When I add the number of days in 2 different months up, it always makes an odd number.' Do you agree?	 The months of February to May have fallen out of my calendar. Can you work out which calendar pages below match to which month? 														
	the number of days in	of days in	Explain your reasoning.	M	Т	W	T	F	s	SN	I T	W	Т	F S	8				
	each month, • Daniel says "The number of days in the last two years add up to				1	2	3	4				1	2						
		5	6	7	8	9	10	11 3	4	5	6	7 8	9						
year and leap		7 days	1 week	1 month	about 4 weeks	make an odd number. I now know that next year is not a leap year."											14 1		
	year.						Is Daniel correct? Can he be sure?											21 2	
			12 months 1 year 24 hours 1 day	io banioi contoct. Can no be saic.	26	27	28	29	30	31			26	27	28 2	9 30			
				True or False							31								
		2577.30	12 2			To check if a year is a leap year, I	М	Т	W	T	F	s	s M	т	W	Т	F :	s s	
	 Fill in the missing numbers in the rhyme. 		only need to check the number of days in one month. Explain your answer.		1	_			5						1 2				
	myme.			7	8					13 3				7	8 9				
	days have September, April,													5 16					
		June and November. All the rest have, except for				30		25	26 2						2 23				
		Febreach	Can you tell me heach mo	use the	ich has _ in a l e pictur	eap yea		•	11	Dan give gue:	n is es tv ss. Wh day mo day Wh day mo	hen ys i onth ys. hen ys i	cludin min be	dd t dd t ny m fore dd t ny m	he noni	mo elp nur th a equ nur th a 60.	mbe and uals mbe	He frieder of the	nds



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures – Time	Compare durations of events [for example calculate the time taken by particular events or tasks]	A TV programme starts at 5:20 and finishes at 6:05. How long does the programme last for? Kieran is learning his times tables. On Monday it takes him 1 minute and 12 seconds to complete 10 questions. By Friday he can complete 10 questions in 42 seconds. How much quicker is he by Friday? Look at the two clocks below. How much time has passed between the first and the second clock?	Henry measures the time it takes for three of his friends to do 30 star jumps. He wants to find out who is the quickest. Henry says: The person with the highest time is the winner because the highest score always wins! Is Henry correct? Explain your reasoning. Order the times below from shortest time to longest time. 83 seconds 1 minute 12 seconds 56 seconds 2 minutes 2 seconds 1 minute 87 seconds 143 seconds Explain your reasoning.	 Ashrita Furman is famous for holding the most world records at the same time, 131! Below is a list of world records he has broken travelling one mile on different equipment. Estimate and order the records from the one you think is quickest to the one you think took the longest. (Remove information in brackets until after activity) 1. Pool Cue balancing on finger (6min 55s) 2. On a Space Hopper (13 min) 3. Sack Race (16min 41s) 4. Pogo stick whilst juggling (23min 28s) 5. Hula hooping whilst balancing a milk bottle on head (13min 37s) 6. Pushing an orange with your nose. (22min 41s) 7. Playing tiddlywinks (23min 22s) How long do you think it would take you? See how long it takes you to complete some of the challenges over 100min.



and show, using diagrams, equivalent fractions with small denominators. • Draw diagrams to show fractions that are equivalent to $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{5}$ • Match the diagram to the different? $\frac{1}{4}$, $\frac{2}{8}$, $\frac{3}{12}$ • Here is a diagram that has some sections shaded. $\frac{3}{4} = \frac{5+3}{3+4}$ • Ailish says, Ailish says,	Example tasks reasoning Example tasks	e tasks fluency Example tasks reasoning Example tasks problem solv	ing
fraction to this where the numerator is 5." Is this possible? Explain why. Explain how this diagram shows Play pairs. Create a set of cards of different diagrams and on. Children turn 2 over in they are equal fraction keep the pair. If not, it	what's the same? What's different? \[\frac{1}{4} \frac{2}{8} \frac{3}{12} \] The show equivalent to \(\frac{2}{5} \) In to the Ailish says, "I am thinking of an equivalent fraction to this where the numerator is 5." Is this possible? Explain why. The same? What's the same? What's values? Can you we values? Can you or friend to come friend	what's the same? What's different? \[\frac{1}{2} = \frac{1}{6} \] \[\frac{1}{2} = \frac{1}{4} = \frac{1}{8} \] aw diagrams to show actions that are equivalent to \[\frac{1}{2}, \frac{1}{3}, \frac{2}{5} \] atch the diagram to the uivalent fraction. Ailish says, "I am thinking of an equivalent fraction to this where the numerator is 5." Is this possible? Explain why. Ailish says, "I am thinking of an equivalent fraction to this where the numerator is 5." Is this possible? Explain why. Explain how this diagram shows both \(\frac{2}{6} \) and \(\frac{4}{5} \) Explain how this diagram shows both \(\frac{2}{6} \) and \(\frac{4}{5} \) Table 1. Can you work out the rivalues? \[\frac{1}{2} = \frac{4 - 7}{2} \] \[\frac{3}{2} = \frac{5 + 7}{3 + 1} \] Can you create your overient to complete? Play pairs. Create a set of cards the different diagrams and on. Children turn 2 over in they are equal fraction keep the pair. If not, they are equal fraction to the work out the rivalues?	at have fractions their go. If s then they ey turn



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Fractions	Add and subtract fractions with the same denominator within one whole.	• Complete the statements: $\frac{1}{5} + \frac{3}{5} = \frac{6}{8} - \frac{3}{8} = \frac{2}{10} + \frac{3}{10} + \frac{4}{10} = \frac{2}{10} + \frac{2}{10} = \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{2}{10}$	 Explain why only the numerator changes in this calculation \frac{2}{5} + \frac{9}{5} = \] Rick is stuck on the calculation \[\frac{11}{6} - \frac{3}{6} = \] 	Use some of the cards below to make a fraction sentence. Can you make more than 1? 7 - 3 4 + 7 = 1
		 Write these statements using numbers: 1 sixth + 3 sixths = Sixths 5 eighths - 3 eighths = Eighths 	His friend, Susie, draws him the following model to help.	How many fraction addition and subtractions can you make from this model?
		• Find the sum of: $\frac{2}{12}, \frac{4}{12} \text{ and } \frac{5}{12}$	Susie says, "Now take $\frac{3}{6}$ away". Rick is confused because he thinks the diagram shows $\frac{11}{12}$. Explain the diagram to Rick and work out the answer.	Do your additions and subtractions always have to be 1 part add 1 part or subtract only 1 part? Can there be more than 2 parts?



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Fractions	Compare and order unit fractions, and fractions with the same denominators.	• Order from smallest to largest \[\frac{3}{9'} \frac{1}{9'} \frac{8}{9'} \frac{5}{9'} \frac{9}{9} \]	Gifty thinks $\frac{1}{8}$ is greater than $\frac{1}{4}$ because 8 is greater than 4. Do you agree? Convince me.	Using equal sized strips of paper ask children to fold them into different amounts (e.g. quarters, sixths etc) and shade one part and write the fraction on each of them. Ask them to order them and
		Use <, > or = to complete the statements below $\frac{4}{9}$ $\frac{2}{9}$	 Rob thinks ¹/₄ is always the same but his teacher has asked him to find a quarter of both these amounts. 	explain to each other what they can see. Create a rule as a class: the bigger the denominator, the smaller the fraction.
		$\frac{1}{7} \qquad \qquad \frac{1}{5}$ $\frac{2+2}{8} \qquad \qquad \frac{3+1}{8}$	a)	Using equal sized strips of paper ask children to fold them into equal parts and shade one part. With another piece of paper do the same amount of equal parts but shade 2 of them and so on. Ask them to order them and
		Which is greater? 1 ninth or 1 tenth	Explain to Rob why it is not the same and create a rule with a partner.	explain to each other what they can see. Create a rule as a class: when the denominator is the same, the bigger the numerator, the bigger the fraction.



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Fractions	Solve problems that involve all of the above.	Use different concrete objects and pictorial representations to make	Raja has a number card. 40	Three pandas shared 1 bamboo stick. They split it into equal parts and each had an odd number of parts. What are the possible fraction amounts that each panda had?
		• Phil baked a chocolate and banana loaf. He ate $\frac{3}{6}$ of it. Rich ate $\frac{2}{6}$ of it. What amount of loaf was left?	He says, "Three eighths of my number is 20." Is he correct? Explain why. • Kate has a number card.	Can you use a strategy or a method?
		• Fill in the missing boxes $\frac{1}{5} + \frac{2}{5} + \frac{2}{5} = \square$? She says, "Three quarters of my number is 18."	
		$\frac{4}{7} - \frac{5}{7} = \frac{5}{7} - \frac{5}{7}$ $\frac{1}{4} + \frac{2}{3} + \frac{1}{3} = 2$	Her friend, Sally, says, "Six eighths of the same number is also 18." What is the number on the card? Who is correct? Sally or Kate.	



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Use <, > or = to complete the statements below 750g 0.8kg 500ml Half a litre 17mm 2cm – 5mm	Adam makes 2.5 litres of lemonade for a charity event. He pours it into 600ml glasses to sell. He thinks he can sell 7 glasses. Is he correct? Prove it.	In groups, children turn over a flashcard to reveal a length (e.g. 20cm). They use Play Do to create a stick of the length given. They do this through estimate then check by measuring. What is the difference between the smallest and largest Play Do stick?	
		Penny bought 3 tins of beans from the shop. They each weighed 418g each. The bag	Here is a blue strip of paper. An orange strip is 7 times longer.	 Using only 3 objects each time, try to get as close to 2kg as possible. Explain why you chose those objects. Work out how much more or how much less is needed to make it
		weighed 5 grams. How heavy was the bag? • A pack of strawberries	The strips are joined end to end.	 2kg. Erik is making buns for 12 people. He follows this recipe for 6
		weighing 226g and 2 jars of coffee, each weighing 480g, are put on the scale.	32cm	people. 65g caster sugar 70g butter 60g self-raising flour
			How long is the blue strip?	1 egg Sugar, butter and flour are all sold in 200g packs. Work out how
		Scale & Const	How long is the orange strip?	much he will have left over of each.
		Draw an arrow to show the	Show your working.	Does he have enough to make 6
	weight of the 3 items.		more buns? 4 buns? 2 buns?	



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures Solinc mis pro nui pla and cor add	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	 Fill in the missing boxes 0.5l + 250ml = 1500ml – 0.25l × = 2l + 500ml 3m – + 750cm = 2m 3.5kg + - 1.5kg = 3.5kg 	 What's the pattern? 2kg - + 250g = 1kg 3kg - + 1.25kg = 1kg 4kg - + 2.25kg = 1kg What's the rule? There is 480ml in a container. How much needs to be added to make 1!? How much needs to be added to make 2!? How much needs to be added to 	Simon runs 4 times further than Emma. Kelly runs 3.6m further than Simon. Kelly ran 48.6m. How far did Emma run?
		Adam, Danny and JoJo have 7kg worth of marbles to share. Adam receives double the amount Danny receives. Danny receives double the amount JoJo receives. How many kg of marbles do they each receive?	Here is a balance. Here is another balance. Work out the value of	Here are three blocks. Each red block is 8cm long. A green block is 6cm long. How long is a blue block?



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
Measures	Continue to	Complete practically	Complete practically	Complete practically
	measure using			
	the appropriate			
	tools and units,			
	progressing to			
	using a wider			
	range of			
	measures,			
	including			
	comparing and			
	using mixed			
	units (for			
	example, 1kg			
	and 200g) and			
	simple			
	equivalents of			
	mixed units (for			
	example, 5m			
	=500cm).			