Orton 1	Wistow	» Prim	chool ·	- Cun	riculur	n Plar	า				
Subject : Maths		Year:		6		Unit : l	Number	and Plac	e Value		
	Knowledge										
Vocabulary	What	Knowledge t children wil	I know	What ch	ildren will ur	ng nderstand	What chi	Skills children will be able to do			
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment		
≥ greater than or equal to ≤ less than or equal to Roman numerals integer, positive, negative above/below zero, negative numbers formula - a mathematical rule written using symbols, usually as an equation describing a certain relationship between quantities. Divisibility - can be divided evenly without leaving a remainder. factorise - the reverse of expanding brackets. prime factor - a prime number that divides exactly into another given number. ascending/descending order digit total – the sum of all the digits in a number, e.g. the digit total of 364 is 3+6+4 = 13	Pupils kr in a num Know w number: calculat very larg populat Know w separate greater Pupils wi symbols Stem Senten One million i The re The value of a is between The previous The is a is nearest f	now the value now the value her up to 100 hy it is helpful s, e.g. when e tions or when s ge numbers su ions. here to put co ors when writin than 10 000 ill know the ine < and > nces is one thousar epresents the is m and s multiple of or next multiple of 	of each digit of each digit 000 000 to round estimating working with uch as ommas or ng numbers equality ad thousands. me million is of one million	 Pupils ur of the pl Pupils ur value co rounding Pupils ur numbers betweet Pupils ur of rounc exactly l Pupils ur numbers contexts 	aderstand the aceholder in aderstand wh olumn to look g numbers aderstand wh s a given num n when round aderstand the ing up if num halfway aderstand wh s are used in r	e importance numbers ich place at when ich two nber lies ding. e convention abers are ere negative real life	 Can use context across z Can rec order n Can rou required 	e negative nu t and calculat zero ad, write, com umbers up to und any numb d degree of a	mbers in re intervals apare and 10 000 000 per to a ccuracy		

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Vocabulary	What	Knowledge children will	l know	l What ch	Jnderstandin nildren will un	g Iderstand	What chil	Skills dren will be	e able to do	
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating	
	RememberingTellingTestinga iswhen rounded to the nearest million.									

🛱 Orton	Wistow Primary So	chool – Curriculur	n Plan 🛛 👫
Subject : Maths	Year :5 /6	Unit :	Addition and Subtraction
			M

Vocabulary		Knowledge	•		Inderstandin	ig alamhana al		Skills		
	what	children wi	IKNOW	what ch	liaren will un	derstand	what children will be able to do			
Define the word and include	Learning	rning Teaching Assessment		Learning	Teaching Assessment		Learning	Teaching	Assessment	
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Reflecting Facilitating		
Addition Add, more, and, make, sum, total, altogether Double Near double Half, halve One more, two more ten more Addends – the numbers added together to make the sum Subtraction	 Pupils wi value to more the Pupils wi exchang Pupils kn in order Pupils kn number nearest 	II know how to line up numb an 4 digits acc II know when ge is and isn't low how to ro to estimate low the most to round to, e 10, 100 or 100	o use place pers with curately an needed ound numbers appropriate e.g. the	• Pupils ur holder	nderstand 'O'	as a place	 Use mar represer how to a Add and larger ni Use form and sub than 4-c Use rour check a 	nipulatives an intations to de add and subtr d subtract inc umbers mento nal written me tract numbers digits nding to estim unswers	d pictorial monstrate ract reasingly ally thods to add s greater ate and	



	Knowledge						M.			
Vocabulary	What	Knowledge children wil	know	l What ch	Inderstandir ildren will ur	ng Inderstand	Skills What children will be able to do			
Define the word and include etymology if useful	Learning Remembering	Teaching	Assessment	Learning	Teaching	Assessment	Learning Reflecting	Teaching	Assessment	
Take away, minus, fewer, less, difference betweenOne less, two less ten lessMinuend - a quantity or number from which another is to be subtractedSubtrahend - a quantity or number fo be subtracted from another.EqualsIs equal to, is the same asNumber bonds Number pair Number facts Part, part, whole Partition Recombine Missing number Tens boundary / Hundreds boundaryCommutative - involving the condition that a group of quantities connected by operators gives the same result whatever the order of the quantities involved, e.g. $a \times b = b \times a$.Approximate - something is almost, but not completely, accurate or exact; roughly	Pupils kn done in cannot Stem Senten If one adder amount and decreased k sum remains	iow that addition any order but ces and is increased the other ad by the same control the same.	d by an dend is mount, the		Couching		Solve a muti-ste	ddition and su p problems	btraction	



Crton	🙀 Orton Wistow Primary School – Curriculum Plan 🙀										
Subject : Mathematics		Year :	6				Unit : /	Mu	ltiplic	attion and	d Division
							M.				
Vocabulary	What	Knowledge children wil	know	W	ן hat ch'	Understandi nildren will ur	ng nderstand	N	What chi	Skills Idren will be	able to do
Define the word and include etymology if useful	Learning Remembering	Teaching Telling	Assessment	Lea	rning	Teaching Coaching	Assessment	L	earning Reflecting	Teaching Facilitating	Assessment
 Multiplication Multiply Multiplied by Groups of Times Repeated addition Multiple - The result of multiplying a number by an integer (not by a fraction). Common multiple - A multiple that is common to two or more numbers. Factor - Numbers we can multiply together to get another number. Common factor - When we find the factors of two or more numbers, and then find some factors are the same ("common factors". Multiplicand – The number to be	 Pupils kn multiplic involving addition Pupils kn be expre a fractic Pupils kn systema the com Pupils kn operatic calculat from left Pupils kn when th written, t Pupils kn efficient strategy compute 	iow that 'long ation' is an all of partial pro- iow that remo- essed as a whom or a decime iow how to us tic approach mon factors of iow that in mix- pro calculation ions are not co- to right. Now the conve- ere is no oper this means mu- low when it is to carry out of rather than a aional methor ces	gorithm n, then oducts. iinders can ole number, al. e a to find all of numbers. ked s, carried out ention that ration sign ultiply. more a mental written d.	 Pnnnnn nn v e = = = P c nn n P c n P P P 	Pupils un nultiply nultiple nultiple audiust the adjust the adjust the adjust the adjust the adjust the adjust the adjust the adjust adjust adjust nultiplic adjust nultiplic ad	nderstand the ing two numb s of 10, 100 or the number of ds or thousand he product us x 40 x 10 x 10 to 100 00 nderstand the nation proper cation, e.g. 5 nderstand the mbers can be ning one of th ting partial pr Iding these po ts together. The ed to multiply rs by two-digit	e e e e e e ty of x 8 = 10 x 4. at two two- e multiplied by le factors, roducts and artial his can be ing three-digit t numbers. w portioning	•	Pupils c to multi digit nu Pupils c to multi number Pupils c 10, 100, pictoria by visua Pupils c propert comple 0.3 x 32 them sc 0.3 x 32 Pupils a the divs disions r Pupils c number Pupils c	an use short r ply numbers k mber. an use long n ply numbers k c an multiply ar 1000 using ca l representation an use the ca y of multiplication of multiplication $0 = 3 \times 2$, and ply calculation $0 = 3 \times 2$, and ply calculation (nultiplication by a single- nultiplication by a two-digit and divide by poncrete and ons and then value charts. pompensation ation to such as d to help ons such as multiples of erm solve non factors of mer or not a prime.



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	Knowledge							M.			
Vocabulary	What	Knowledge children wil	. I know	V	l What ch	Inderstandin ildren will un	ig iderstand	What chi	Skills What children will be able to do		
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Teaching Assessment Practising Coaching Observing			Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
etymology if useful. Multiplier – The number by which the multiplicand is multiplied by Product – The result of a multiplication Multiplication: $6 \times 3 = 18$ Factor (or Multiplication) Division Divide Divide Divide Divide into Grouping Shared equally Left over Remainder Equal groups of Divisor – The number we divide by.	Remembering "If I multiply of must divide the same number the same." "If I multiply of and keep th must multiply number." "If one factor size, the proof size."	Telling one factor by the other factor one factor by e other factor y the product or is made ten duct will be e	Testing r a number, I tor by the duct to stay r a number, r the same, I by the same times the n times the	• •	actising accordi supports number: Pupils ur pairs ca 780 ÷ 20 Pupils ur 'long div Pupils ur decima Pupils ur the remain decima Pupils ur the remain could m packs n context. Pupils ur number: factors. Pupils ur operatio	Coaching Coaching ing to place very is division of lar s. inderstand how in support divis = 780 ÷ 10 ÷ 2 inderstand eace vision' process inderstand how inder into a fra l. inderstand how ainder, e.g. 38 lean 31 full pa eeded, dependent inderstand how is down to their inderstand how is down to their inderstand how is down to their inderstand how is down to their inderstand how	Observing alue, rger w using factor ding, e.g. ch step in the s w to change action or a w to interpret 30 ÷ 12 = 31r8 acks or 32 nding on the w to break ir prime w the order of e answer.	Reflecting Pupils co involving numbes Pupils co one cal answer calcular e.g. 5,1 use this	Facilitating an solve prob g square and culation to de to another sin tion, 38 ÷ 14 = 367 to to calculat	Evaluating lems cubed facts from etermine the nilar re 367 x 15	
Quotient - The answer after we divide one number by another.											
dividend ÷ divisor = quotient.											



			J					Skills			
Vocabulary	Knowledge What children will know			What ch	Understandir nildren will ur	ng nderstand	Skills What children will be able to do				
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
Commutative law - The Law that says you can swap numbers around and still get the same answer when you add or when you multiply. Ditributive law - multiplying a number by a group of numbers added together is the same as doing each multiplication separately.								<u></u>			
 Prime number - A number that is only divisible by itself and 1 to leave a whole number. Composite number - A whole number that can be made by multiplying other whole numbers. 											
Square number - the number we get after multiplying an integer (not a fraction) by itself.											
Cubed number - The whole number is used three times , just like the sides of a cube.											
Prime factor - A factor that is a prime number.											

Orton Wistow Primary School – Curriculum Plan									
Subject : Maths	Year: 6	Unit : Algebra							

	Knowledge											
Vocabulary	What	Knowledge children wil	l know	Understanding What children will understand			ng nderstand	Ņ	What chil	Skills dren will be	able to do	
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Lear Prac	r ning tising	Teaching Coaching	Assessment Observing	L	.earning Reflecting	Teaching Facilitating	Assessment Evaluating	
Term to term rule Variable Unknown Expression Equation Formula One-step equation Two-step equation Substitution Pairs of unknown enumerates	 Pupils kn expressio represer Pupils kn for exam multiplie can repr this is also + t + t. 	ow that formi ons uses letter it numbers. ow the conve aple, "3t" med d by t; as mul resent repeat o a simpler wa	ing algebraic s to ention that, ans 3 tiplication ed addition, ay of writing t	 Print <	upils un function upils un nportar rder of xample will be upils un upils un xpressic alues d umber upils un xpressic quals si upils un xpressic alue of quation specifi upils un verse c quation	is "input", "or n" and "rule" inderstand the inderstand the that they f the function e, the output different from aderstand the "2 more than written more e, "x + 2" or " inderstand the on can have lepending or is substituted aderstand the on can have lepending or is substituted aderstand the on, noticing t on does not h ign, but a for aderstand the on, such as 2 s value depend x, whereas in n, such as 2 x ic value. aderstand the operations he ns.	e meanings of utput", '. y it is ollow the s; for of \times 5 then + m + 3 then \times at phrases n a number" simply as, for y + 2". at the same different n what t into it. e difference and an that an have the mula does. at an x + 6, ending on the n an + 6 = 14, x has at using elps to solve	•	Pupils ca given ou operatio Pupils ca find the of the fo Pupils ca the inpu- but one missing. Pupils ca expressi number Pupils ca such as Pupils ca out pair example values ca find all t	an find the in utput, using ir ons. an find numb given and the output, using our operation an find a rule an solve prob it and output of the two fu anfind values ons by substit s in place of an substitute t algebraic e 3a + 1. an use substit s of possible v e, if $x + y = 9$, of y for differe an work syste he possible ir	put from a nverse ers where the ey need to g a mix of any s. olems where are given, unctions is of ruting the letters. numbers into xpressions ution to work values. For they find the nt values of x. matically to ateger values.	



			M.				
Vocabulary	Knowledge What children will know	Understanding What children will understand	Skills What children will be able to do				
Define the word and include etymology if useful.	Learning Teaching Assessment Remembering Telling Testing	LearningTeachingAssessmentPractisingCoachingObserving	Learning Teaching Assessment Reflecting Facilitating Evaluating				
		Pupils understand that equations with two unknown values can have several possible solutions.					
Crłon	shool — Curriculur	n Plan 🛛 🚑					
Subject : Mathematics Year : 6 Unit : Decimals							
Subject: Manuemancs							
Subject : Wamewancz							
			M.				
Vocabulary	Knowledge What children will know	Understanding	Skills				
SUDJECT : Maneimanics	Image: Constraint of the second state of the second sta	Understanding What children will understand Learning Teaching Assessment Practising Coaching Observing	Skills What children will be able to do Learning Teaching Reflecting Facilitating Evaluating Evaluating				



	Knowledge						M.				
Vocabulary	What	Knowledge children wil	I know	l What ch	Understandir Dildren will ur	ng Inderstand	What chi	Skills What children will be able to do			
Define the word and include etymology if useful.	Learning Remembering	LearningTeachingAssessmentLearningRememberingTellingTestingPractising		Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
	 Pupils kn such as t eigths as Pupils kn is the same Stem Senten 1 is 10 times the One-tenth is hundredth. 1 is 100 times hundredth. 10 tenths is e 10 hundredthe 10 hundredthe 10 hundredthe 10 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 18 hundredthe 10 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 10 hundredthe 10 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 18 hundredthe 19 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 18 hundredthe 19 hundredthe 10 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 18 hundredthe 19 hundredthe 19 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundredthe 14 hundredthe 15 hundredthe 16 hundredthe 17 hundredthe 18 hundredthe 18 hundredthe 19 hundredthe 10 hundredthe 10 hundredthe 10 hundredthe 11 hundredthe 12 hundredthe 13 hundre 14 hundre 14 h	ow common thirds, quarter s decimals. ow the line in me as divided e as 3 ÷ 4. ces the size of one 10 times the sis the size of or equal to 1 one has is equal to ths is equal to and 8 more h has is equal to and 8 more h	fractions fractions rs, fifths and the fraction d by e.g. ³ / ₄ is e-tenth. size of one- ne- ne- ne- 1 tenth. o 1 one. 10 undredths. 1 tenth. So 1 tenth and 8 s 0.18. point-zero-				Pupils c method decima	an use short c t to convert fr ils.	livision actions to		



		OWPS Curriculum 2.0										
			M.									
Vocabulary	Knowledge What children will know	Understanding What children will understand	Skills What children will be able to do									
Define the word and include etymology if useful.	LearningTeachingAssessmentRememberingTellingTesting	LearningTeachingAssessmentPractisingCoachingObserving	Learning Teaching Assessment Reflecting Facilitating Evaluating									
	is equivalent to' We know that, so <' is equivalent to' 'We know that<, so<'											
🙀 Orton 🛛	Wisłow Primary Sc	shool — Curriculur	n Plan 🛛 👫									
Subject : Mathematics	Year: 6	Unit :	Fractions									



			M.			
Vocabulary Define the word and include etymology if useful. fraction unit fraction – a fraction with a numerator of 1 Non-unit fraction – a fraction where the numerator is greater than or equal to the denominator (equal to or greater than one whole) Proper fraction – a fraction where the numerator is smaller than the denominator (less than one whole) improper fraction – a fraction where the numerator is larder than the denominator equivalent fraction – equal in value Simplify – to make a fraction as simple as possible, e.g. 2/10 can be simplified to 1/5 by dividing both top and bottom by 2 (and that is as far as we can go) Simplest form - A fraction is in simplest form when the top and bottom cannot be any smaller, while still being whole numbers. mixed number – a whole number	 Knowledge What children will know Learning Teaching Assessment Remembering Telling Testing Pupils know that when calculating fractions, they need to simplify their answers. Pupils know that when a numerator or denominator are prime numbers, a fraction cannot be simplified any further. Pupils know that when comparing mixed numbers, they start by comparing the whole numbers. Pupils know that when the numerators are the same, the larger the denominator, the smaller the fraction. Pupils know that they have to make the denominators the same and change the numerators accordingly before addition or subtraction can be performed. Pupils know that multiplying a number by a half is the same as dividing by 2. Pupils know that – of is the same as 	 Understanding What children will understand Learning Teaching Assessment Practising Coaching Observing Pupils understand how to use the highest common factor to simplify fractions. Pupils understand how to use their number sense to visualise the size of fractions before converting when comparing and ordering fractions. Pupils understand how to make the denominators the same in order to compare and order fractions. Pupils understand how to find the lowest common multiple to find common denominators. Pupils understand the link between dividing fractions by integers to multiplying by unit fractions. 	SkillsWhat children will be able to doLearningTeachingAssessmentReflectingFacilitatingEvaluating•Pupils can represent fractions using different pictorial representations.Evaluating•Pupils can use a diagram to compare fractions.••Pupils can use 1/2 to compare fractions.••Pupils can arrange fractions from smallest to largest and vice versa.•Pupils are able to convert a mixed number into an improper fraction and vice versa.•Pupils can multiply simple pairs of fractions using diagrams.•Pupils can use concrete materials and pictorial representations to divide a fraction by a whole number.•Pupils can show division of fractions using pictures.•Pupils can use equivalent fractions to divide fractions where the numerator is not a multiple of the interger they are dividing by.•Pupils can invert the whole number into a fraction to use multiplication to solve.			
and a traction combined into one number numerator ,	form, divide both the numerator and the denominator by their highest common factor.		PAGE 11			

							M				
Vocabulary	Knowledge What children will know			l What ch	Inderstandin ildren will un	ig iderstand	What chi	Skills What children will be able to do			
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
common numerator – when two or more fractions have the same numerator denominator common denominator – when two or more fractions have the same denominator equal part equal grouping equal sharing parts of a whole half, two halves one of two equal parts quarter, two quarters, three quarters one of four equal parts one of four equal parts one of three equal parts sixths, sevenths, eighths, tenths, hundredths, thousandths	We need to denominato multiple of 5. common de express both If one denor the other, we denominato denominato We need to denominato We need to denominato both fraction If the denor the larger the the fraction.	compare the rs of $\frac{1}{5}$ and $\frac{4}{15}$. We can use nominator. We fractions in fi minator is not e can multiply rs to find a corr. compare the rs of $\frac{1}{3}$ and $\frac{3}{8}$. 24 is a multiple can use 24 as r. We need to hinators are the e numerator, ators are the se e denominator	 . 15 is a . 15 as the deneed to freenths. a multiple of denember of the two portions . 8 is not a cole of both 3 the common com								



OWPS Curricu											
	Knowledge						SWY				
Vocabulary	Kno What child	wledge dren will kno	w	Understanding What children will understand			What chi	Skills What children will be able to do			
Define the word and include	Learning Tec	aching Ass	essment	Learning	Teaching	Assessment	Learning	Teaching	Assessment		
Proportion in every, for every per cent, % - out of one hundred. Derived from the Latin per centum, meaning "hundred" or "by the hundred". percentage,	 Pupils know th "out of a hum Pupils know th Pupils know th number you r Pupils know th decimal to a when conver Pupils know to decimals and same form so more easily of compared. Stem Sentences 50% = ½ so we co parts. 25% = ¼ so we co parts. 20% = 1/5 so we parts. 10% is equivalent 1% is equivalent 1% of an amour 	And per cent r dred". The symbol % must to find 10% must divide by that converting fraaction is he ing to percent o convert frace percentage that they can redered and livide into 2 divide into 4 divide into 4 divide into 4 to 1/10. To to 1/100. To to 1/100. To	resting means % of a y 10. g a elpful ntages. ctions, s to the n be equal equal 5 equal 5 equal o find y 10. o find 100.	 Pupils un percent proporti Pupils un relates t hundred Pupils un of perce decima Pupils un betwee and the e.g. und not 1%. Pupils un more th problem and son than otf Pupils un whole w percent number 	nderstand the rage is a mea on. Inderstand the o 'number of d'. Inderstand the entages, fract ls. Inderstand the ir equivalent derstanding the inderstand the an one way to involving pe ne ways are mers. Inderstand how when they are rage, e.g. If 10 is 7, what is the	at asure of at 'per cent' parts per e connection tions and e difference hundredths percentages, nat 0.1 is 10% ere may be to solve a ercentages more efficient w to find the given a 0% of a he number?	 Pupils c represe Pupils c 10% of a the bar Pupils c amoun multiple percen Pupils c equival denom the per Pupils c equival denom the per Children fraction percen order a Pupils c show al amoun 	an draw bar r nt a quantity an determine a number or c model. an find perce ts, e.g. 35% by es of 10% and tages. an convert fra- ent fractions v inator is 100 in centage equi $\frac{100}{100} = $	evaluating models to as 100% multiples of quantity using ntages of r finding other known actions to where the order to find valent. % t between nd oble them to them. model to d decrease in		



🗰 Orton 🕻	Wistow	» Prim	ary Sc	chool	- Cun	riculur	n Plar	โ		
Subject : Maths	ns Year: 6 Unit : Ratio									
		Knowledge What children will know						M.		
Vocabulary	What	Knowledge children will	know	l What ch	Inderstandir ildren will ur	ng Inderstand	Skills What children will be able to do			
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning Reflecting	Teaching	Assessment	
Ratio Proportion "for every there are" Part Whole Scale factor Enlargement Similar shapes Length Width perimeter	 Pupils kr multiplic betwee Pupils kr colon. Pupils kr every, t as:. Pupils kr answers which v Pupils kr similar to that bot commo Pupils kr enlarge matchir ratio. Pupils kr enlarge matchir ratio. Pupils kr shapes are in th the corr equal, s enlarge shapes 	now that ratio cative relations in two amount now the ratio s how that the w here are " can now, and conv now, and conv nov, and	represents a ship ts. symbol as a vording, "For n be written vey in their er refers to ifying ratios is actions and ding by shape is an her if all the the same ar shapes are ponding sides ortion and gles are a is an ther, the two	 Pupils ur relations can be multiplic relations be expre = 9) or a Pupils ur relations these, fc ÷ 3 = 3. Pupils ur relations languag size" and Pupils ur is related simple c every 2 l red cou Pupils ur is related simple c every 2 l red cou Pupils ur which th importal 2 red cu cubes, s every 3 l 	inderstand that hip between expressed ad atively. For ex- hip between essed as an a multiplication inderstand the hips related to or example 9 - inderstand mu- hips by using ge such as "3 d "a third of the orderstand how d to another b omparisons, so olue counters inters." inderstand those of the another b omparisons, so olue counters inters." inderstand those of the another b orderstand those of the another b on the another b of the another b on the another b	the the two numbers difficely or cample, the 3 and 9 can iddition $(3 + 6$ in $(3 \times 3 = 9)$. inverse to each of - 6 = 3 and 9 ltiplicative the times the he size". w one value by making such as: "For s, there are 3 it the order in used is ble, for every a 3 blue is 2 : 3. For here are 2 red is 3 : 2.	 Pupils c number relation multiplic Pupils c underst fraction Pupils c given a point. Fu that 1/- blue, ar ratio of Pupils c of calcumultiplic betwee 3 cm re what 6 either m multiply result, 1 Pupils c such as being ir of scale 	an complete s, deciding w ship is additive cative. an relate ratio anding of sim s. an explore ra- fraction as a or example, th 4 of a group of they need blue to not bl an explore dif ulating scaled cative relation on numbers. For presents 9 cm cm represents 0 cm by 3 to 8 cm. an use familio "3 times as bi- troduced to a factors, for e ed by a scale	sequences of hether each e or to their plifying lio when starting ney are told of objects is to find the ue. iferent ways lengths using iships or example, if n, then to find s they can by 2 or find the ur language ig" before the language stactor of 3".	



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			SWY								
Vocabulary	Knowledge What children will know	Understanding What children will understand	Skills What children will be able to do								
Define the word and include etymology if useful.	Learning Teaching Assessment Remembering Telling Testing	Learning Teaching Assessment Practising Coaching Observing	Learning Teaching Assessment Reflecting Facilitating Evaluating								
	 Pupils know that when they multiply or divide from one amount to another, they do the same for the other value to keep the ratios equivalent. 	 Pupils understand that the same ratio can be written in different forms, for example 4 : 6 can be written as 2 : 3. Pupils understand the differences and similarities between ratios and fractions. Pupils understand that a ratio compares one item with another, whereas fractions compare each part with the whole. Pupils understand if diagrams are accurately scaled or if the proportion of the dimensions has been changed. Pupils understand the language of "Each square represents" to explain the relationship between the original image and its scale drawing. 	 Pupils can draw the result of an enlargement by a given scale factor. Pupils can identify the scale factor of an enlargement when presented with both images. Pupils can use the inverse operations to find the dimensions of the original shape given the size of the enlargement. Pupils can represent problems using bar models. 								





	Knowledge						M.				
Vocabulary	What	Knowledge	know	l What ch	Inderstandir nildren will ur	ng Inderstand	Wha	Skills What children will be able to do			
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learn	ing Teaching	Assessment		
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflect	ting Facilitating	Evaluating		
bar chart, pictogram frequency table, tally chart pie chart discrete data, continuous data line graph sum, difference comparison interpret mean average	 Pupils kr approxin lies betw which is Pupils kr are used Pupils kr used to part of c Pupils kr represer one half quarter Pupils kr average Pupils kr total nut 	now they can mate values for veen two mar why a dashed now that time on the horizont now that dual d to compare now that dual d to compare now that pie c represents info a whole. now that a wh hats 100% of the f represents 205 now the mean e. now the formu mber ÷ number	only read off or data that ked points, d line is used. is usually tal axis. bar charts data. harts are ormation as ole pie chart e data, so 1%, one % and so on. as an la: mean = er of items.	 Pupils un represen Pupils un scales bo Pupils un key to er be interp Pupils un show the popular i charts sh than a he Pupils un context o Pupils un for findin 25%. Pupils un for findin 25%. Pupils un the value total or p example the size o Pupils un to work o represen multiplico each seo Pupils un and why summaris Pupils un calculate skills. 	derstand the ap seed on the nur derstand the in sure that the b reted. derstand that b reted. derstand that b numbers of ma tems quickly, w ow something a dif/quarter etc. derstand perce of pie charts. derstand efficie g multiples of 10 derstand they of e of t sections, u roportional rea , knowing 40% of f 5%). derstand that they out how many of t each item of ation to find the stor. derstand what averages are u te sets of data.	opropriate mbers given. aportance of a ar charts can bar charts may ost/least thereas pie as more/less of the total. entages, in the ent strategies 0%, 20% and can work out using either the soning (for must be 8 times begrees data, and then a angle for an average is useful to he mean is on and division	 Pup infc Pup a g infc Pup infc Pup infc Pup infc Pup infc Pup rep wh Giv can val Pup the nee giv Pup eaa Pup gui infc 	pils ardow line graphs of ormation. pils can answer proble e graphs. pils can infer what has given situation based of ormation provided in f pils can interpret simp entify the greatest/ leco pils can use the total r presented by a pie ch hat each equal part is ven the value of one p in work out the total a lues of other parts of t pils can interpret pie c e total number is not g ed to work out the tot pils can draw simple p ich part being worth 5 here they can easily se d one quarter of the pils can construct pie idelines are provided, ervals and then at 1%	ems involving s happened in on the the line graph. le pie charts to ist amounts. number art to work out worth. bart, pupils nd/or the he pie chart. charts where jiven, and they al from a bie charts, with i0% or 25%, see one half chart. charts where firstly in 10% intervals.		

Orton Wistow Primary School – Curriculum Plan



Subject : Mathematics



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Year:6





Unit : Position and Direction

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Vocabulary	Knowledge	9	l	Understandir	ng		Skills			
	What children wi	ll know	What ch	nildren will ur	nderstand	What chil	ldren will be	able to do		
Define the word and include	Learning Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment		
etymology if useful.	Remembering Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating		
Axes Axes X axis Y axis Origin (0,0) Quadrant First quadrant Four quadrants Negative numbers clockwise, anticlockwise compass point north, south, east, west, N, S, E, W north-east, north-west, south-east, south-west, NE, NW, SE, SW horizontal, vertical, diagonal translate, translation movement whole turn, half turn, quarter turn, three-quarter turn rotate, rotation angle, is a greater/smaller angle than degree right angle acute angle obtuse angle Symmetry, symmetrical, line of symmetry reflection straight line	 Pupils know the point as the origin. Pupils know which we along the axis to find coordinates. Pupils know that the or coordinates is (x, y). Pupils know that to firreflected point is locative a mirror or count point is away from th Pupils know that whe shapes, you should for vertex at a time. Pupils know when transhapes, you move all first (left/right) and th Y axis (up/down) Pupils know the differ between reflection a translation. 	r (0,0) is know ay to move negative order of the added, you can how far the e mirror line. In translating ocus on one nslating ong the X axis en along the rence	 Pupils ur number scales ir Pupils ur length c coordin Pupils ur is fixed (point cc coordin Pupils ur where v coordin 	nderstand neg s in context of n four quadrar nderstand how of a line by usin ates of its two nderstand the does not mow an be plotted ates, so it can nderstand that we start measu ates from.	gative f reading hts. w to find the ng the end points. coordinate ve) wheras a at different be moved. it (0, 0) is uring the	 Pupils ca on a nu Pupils ca number Pupils ca different negativa- line. Pupils ca of points on accurat Pupils ca points on accurat Pupils ca horizont Pupils ca of figure Pupils ca of figure Pupils ca of figure Pupils ca of figure Pupils ca cordin opposite Pupils ca coordin opposite 	an place pos mber line. an place neg s on a number an determine ce between e numbers us an describe fl s on a coordina tely. an reflect a sl mirror line. an identify the an identify the s on a grid. an identify the and its oppos an determine ce between ates of a vert e vertex. an express the ates between using algebra	ative numbers gative er line. the positive and ing a number he positions nate grid. positions of te grid hape across a hape across a e coordinates e vertex of a ite vertex. the the rex and its e change in h opposite a.		







OWPS Curriculum 2.0 Vocabulary Knowledge Understanding Skills What children will know What children will understand What children will be able to do Define the word and include Teaching Teaching Teaching Learning Assessment Learning Assessment Learning Assessment etymology if useful. Remembering Telling Testing Practising Coaching Observing Reflecting Facilitating Evaluating parallelogram, a square and a Face Edge rhombus. vertex, vertices Pupils understand that a net is a • two-dimensional figure that can apex be folded to make a threeprism net dimensional shape. Angle **Right-angle** Acute Obtuse Reflex Clockwise Anti-clockwise protractor Line Horizontal Vertical Parallel Perpendicular



Subject: Mathematics

Year:6

Unit : Measures



							Skille				
Vocabulary	What	Knowledge children wi	e II know	Whata	Understandi children will u	ng nderstand	Wł	Skills What children will be able to do			
Define the word and include etymology if useful.	Learning Remembering	Teaching Telling	Assessment	Learning Practising	Coaching	Assessment Observing	Lec Ref	arning	Teaching Facilitating	Assessment Evaluating	
length centimetre metre millimetre kilometre mille foot, feet inch, inches weight mass tonne kilogram gram pound ounce capacity volume litre millilitre centilitre a.m., p.m. digital/analogue clock/watch, timer 12-hour clock time, 24-hour clock time	 Pupils kn use whe of measi and vice Pupils kn betweer an object Pupils kn that wou appropr items. Pupils kn 5 miles i km. Pupils kn 1 foot is 1 gallon I stone i: 1 gallon I nch is Pupils kn approxir Stem Senten There are 10 to convert g divide by 100 There are 10 so when we metres, we compared 	iow which op in converting urement to a e versa. now the differ in capacity (the ct can conta (the amount now the unit could be the mo- iate to measure is approximate is equal to 12 in the approximate is equal to 12 in the second to 12 in the sec	eration to a smaller unit larger one ence he amount in) and actually in an of measure ost ure different rely equal to 8 hoches 6 ounces pounds pints ely 2.5 cm ol '≈' as "is to".	 Pupils multip and 1 betwee capace Pupils as a p perfor questi numbo Pupils what e scale. 	understand the lying and divid .000 when com een units of leng city. understand the lace holder wh ming some cal ons will involve ers of decimal understand ho each mark is w	e link between ing by 10, 100 verting gth, mass and e role of zero nen culations, as varied places. w to work out orth on a		Childrer recogni: length, r Pupils co metres, c millimetr kilogram minutes Pupils co 2-D shap Pupils co 2-D shap Pupils co and det 'less tha Pupils co convers from km Pupils co convers measure and me Pupils co convers measure and me Pupils co convers measure and me Pupils co convers measure and me Pupils co convers measure and cor using div	n read, write of se all metric r mass and cap an convert be centimetres a res; litres and ns and grams and hours et an use a ruler pes. an use decim measure whe an compare ements in diffe termine 'grea an' and 'equo an find appro- tions from miles. an perform re- tions, both wit es and betwee etric. an determine s there are in any minutes in any hours in a an find fraction nvert these in- vision.	and neasures for pacity. etween nd millilitres; seconds, c to measure als to express n converting. erent units ter than', il to'. ximate es to km and lated hin imperial en imperial how many a minute, an hour, day, and so ons of time to decimals	



Orton .	Wistow Primary Se	shool — Curriculun	n Plan 🛛 🚝		
Subject : Maths	Year:6	Unit : /	Area, perimeter and volume		
			2MA		
Define the word and include	Knowledge What children will know Learning Teaching Assessment Percembering Teiling Testing	Understanding What children will understand Learning Teaching Assessment Practing Coaching Observing	Skills What children will be able to do Learning Teaching Assessment Reference Exclusion Exclusion		
perimeter area volume cubic units (e.g. cm3) cuboid width length rectangle rectilinear parallelogram perpendicular height	 Pupils know the differences between area and perimeter. Pupils know the formula A = L X W to find areas of rectangles. Pupils know methods for finding the perimeters and areas of rectangles and rectilinear shapes and compare their efficiency. Pupils know whether they need to add or subtract to find the area of a rectilinear shape. Pupils know the formula area = 1/2 × base × perpendicular height. Pupils know that the area of a parallelogram and compare to a rectangle. Pupils know that the area of a parallelogram can be found by using the formula area = base × perpendicular height. Pupils know they can find the volume of a single layer by the number of equal layers. Pupils know the formula: volume of cuboid = length × width × height. 	 Pupils understand that shapes can look different but still have the same area. Pupils understand when multiplication can be used to find the areas of shapes. Pupils understand they can use factor pairs rather than relying on counting squares to calculate and draw rectangles that have the same area. Pupils understand that when finding the area of a rectilinear shape, they look for the most efficient way to split the shape rather than always splitting it the same way. Pupils understand how to calculate unknown side lengths. Pupils understand when it may be efficient to find the area of a rectilinear of a rectilinear shape by subtracting the missing part from the area of a whole rectangle. Pupils understand that a right-angled triangle with the same length and perpendicular height as a rectangle has an area that is half the area of the rectangle. 	 Pupils can find the areas of shapes by counting squares and then identify shapes that have the same area. Pupils can estimate the areas of triangles that involve sections of squares greater and less than half. Pupils can create their own triangles with a specific area. Pupils can identify the correct parts of the triangle. Pupils can find the areas of triangles where only the base and perpendicular height are given. Pupils can use multiplication to find the number of cubes in one "layer" of the shape and then multiply this by the number of layers to find the most efficient method to calculate the volume using the associative law of multiplication. 		



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Vocabulary	Knowledge What children will know			l What ch	Inderstandin nildren will un	ig iderstand	Skills What children will be able to do			
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating	
				perpend length of Pupils und always a sometime one poss use to fin Pupils und parallelo make a r and widt perpend parallelo Pupils und between and its le	icular height is r one of the side derstand that th t the bottom of es there may be ible calculation d the area. derstand how th gram can be re ectangle in whi h correspond to icular height of gram. derstand the rel the total volum ngth, width and	not always the is. The base is not a triangle and a more than they could the parts of the earranged to ich the length of the base and the lationship the of a cuboid d height.				



