💭 Orton 🕅	Wistov	w Prim	nary Sc	chool	- Cun	riculur	n Plar	า		
Subject : Maths		Year :		5		Unit : I	Number	and Plac	e Value	
(?) (I) Vocebulary	Knowledge							M.		
vocabolary	What	<sup>·</sup> children wil	I know	What ch	nildren will ur	nderstand	What chi	Idren will be	able to do	
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
<ul> <li>Millions</li> <li>Factor pair - a pair of numbers multiplied together form another number called their product.</li> <li>Powers of 10 - A power of 10 is the number 10 multiplied by itself a number of times.</li> <li>≥ - Greater than or equal to</li> <li>≤ - Less than or equal to</li> <li>≤ - Less than or equal to</li> <li>≈ - Approximately</li> <li>Divisibility - can be divided evenly without leaving a remainder.</li> <li>Square number - a number that results from multiplying an integer by itself which can be represented in the shape of a square.</li> <li>Prime number - a number that has exactly two factors. It can only be divided evenly by itself and one.</li> </ul>	Pupils kn 1000     Pupils kn column numbers 1000 and Pupils kn column value wi Pupils kn value wi Pupils kn value wi Pupils kn value wi Pupils kn value wi Pupils kn value wi Pupils kn column value wi Pupils kn column value wi Pupils kn column value wi Pupils kn column value wi Pupils kn column value wi Non hundred cone hundred one hundred one hundred one hundred one hundred     one hundred	and the stands make of the stand	umerals up to ace value en round est 10, 100, on the est place ing numbers e the zero back ten nake ten one hundred nds make	<ul> <li>Childrer happer column 1000</li> <li>Pupils u same al our num Roman</li> <li>Pupils un number betwee</li> <li>Pupils un of round exactly</li> <li>Pupils un is valual countrie items in boxes</li> <li>Pupils un number</li> </ul>	n understand whing in the plays when adding understand whi nd what is diff hber system ar numeral syste nderstand whi is a given num in when round nderstand the ding up if num halfway nderstand whi ble, e.g. populas or when part to boxes of 10 nderstand neg is in context, si ature	what is ce value g 10, 100 and nat is the ferent about nd the em ich two nber lies ding. e convention abers are en rounding vlations of cking 53 ) you need 6 gative uch as	<ul> <li>Count f of powe number</li> <li>Interprecontext</li> <li>Count f with po number</li> <li>Read, w number</li> <li>Read, w number</li> <li>Read, w number</li> <li>Use cor pictoria represe</li> <li>1,000,00</li> <li>Round e</li> <li>1,000,00</li> <li>Round e</li> <li>1,000,00</li> <li>Read Read Read Read</li> <li>Recogr cube no</li> </ul>	orward and b ers of 10 for an r up to 1,000,0 et negative nut orwards and sitive and neg rs, including th vrite, order an rs up to 1,000, ine the value horete materia il representation nting number u 20 to the near 1000, 10 000 a oman numero cognise years numerals hise square nu umbers	pack in steps by given 00 mbers in backwards gative whole frough zero d compare 000 and of each digit als and ons when s up to p to est nd 100 000 als to 1000 (M) written in mbers and	

OWPS Curriculum 2.0

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Vocabulary	<b>Knowledge</b> What children will know			<b>l</b> What ch	<b>Inderstandir</b> ildren will ur	<b>ng</b> Inderstand	What chil	Skills dren will be able to do Teaching Assessment Facilitating Evaluating		
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment	
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	Negative nu Negative nu Positive num zero. Positive num For both neg numbers, the number, the zero.	mbers are be bers are grea bers are abov gative and po e larger the vo further it is av	low zero. ter than ve zero. sitive alue of the vay from							

	Orton	Wistor	» Primary	School	- Curri	iculum	Plan	
Subject : Math	S		<b>Year :5 /6</b>			Unit :Ad	dition and S	ubiraction



**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 Learnina Teachina Assessment Learnina Teachina Assessment Learnina Teachina Assessment etymology if useful. Remembering Telling Testing Practising Coaching Observing Reflecting Facilitating Evaluating Use manipulatives and pictorial Pupils will know how to use place Addition value to line up numbers with representations to demonstrate Add, more, and, make, sum, total, more than 4 digits accurately how to add and subtract altogether Pupils understand '0' as a place • Pupils will know when an Add and subtract increasinaly Double holder exchange is and isn't needed larger numbers mentally Near double Pupils know how to round numbers • Use formal written methods to add • Half, halve in order to estimate and subtract numbers greater One more, two more... ten more • Pupils know the most appropriate than 4-diaits Addends – the numbers added number to round to, e.g. the • Use rounding to estimate and together to make the sum nearest 10, 100 or 1000 check answers Subtraction Pupils know that addition can be Solve addition and subtraction • Take away, minus, fewer, less, done in any order but subtraction muti-step problems difference between cannot One less, two less... ten less Minuend - a quantity or number from Stem Sentences which another is to be subtracted **Subtrahend -** a quantity or number to If one addend is increased by an be subtracted from another. amount and the other addend is Equals decreased by the same amount, the Is equal to, is the same as sum remains the same. Number bonds Number pair Number facts Part, part, whole Partition Recombine Missing number Tens boundary / Hundreds boundary **Commutative** - involving the condition that a group of quantities connected by operators gives the same result whatever the order of the quantities involved, e.g.  $a \times b = b \times a$ .



Vocabulary         Knowledge         Understanding         Skills           Vocabulary         Knowledge         Understanding         Skills           Mathematikes         What children will know         What children will understand         Mathematikes         Skills           Apportinger something is almost, but not completely, accurate or exact:         What children will water will be able to do         Skills         What children will water will be able to do           Subject : Mathematikes         Vecary         Naview         Counting         Counting         Naview         What children will be able to do           Vocabulary         What children will water will be able to do         Naview         Counting         Naview									OV	VPS Curriculum 2.0
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Define the word and include etymology if useful.         What children will know         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will be able to do between the word and include etymology if useful.         What children will word etymology if useful.         What children will know         What children will word etymology if useful.         What children will word etymolo	Vocabulary		Knowledge	<del>?</del>	ι	Jnderstandir	Ig		Skills	
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Entropy         Index         Telling         Process         Counting         C	Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment
Notifier - Some result;         Original methods, buil not completely, accurate or exact;         Contron Wilstow Primary School – Curriculum Plan         Subject : Mathematics       Year : 5       Unit : Multiplication and Division         Vocabulary       Knowledge       Understanding       Skills         Word children will know       What children will know       Understanding       Skills         Word children will know       Understanding       Skills       What children will know         What children will know       Understanding       Skills       What children will know         What children will know       Pupis know that 1 is a factor of al positive intergers.       Pupis know that 1 is not a prime number fit only hos nos factor of al positive intergers.       Pupis know that 1 is not a prime number;       Pupis understand the inverse relationship between tactors and numbers only hore two factors of a number to you initeger (not by a fraction).       Pupis know that 2 is the only even prime number.       Pupis understand that a multiple of numbers.       Pupis know that 2 is the only even prime number.         • Pupis know that 1 is not a prime number if only hos not factor of a positive interger.       • Pupis know that 2 is the only even prime number.       • Pupis understand that a multiple of numbers.       • Pupis con receil prime numbers.         • Pupis know that 1 is not a prime number if only hos not factors of a number to wole molecure and another whole number.	etymology if Useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating
Oriton Wistow Primary School – Curriculum Plan         Subject : Mathematics       Year : 5       Unit : Multiplication and Division         Oricon Wistow Primary School – Curriculum Plan       Subject : Mathematics         Vear : 5       Unit : Multiplication and Division         Vocabulary       Knowledge       Understanding         Vhat children will know       Understanding       Skils         Multiple of etymology if useful.       Pupils know that the commutative law can be applied when multiplied by Groups of Irmes       Pupils know that 1 is a factor of applied when multiples.       Pupils understand the invesse relationship between factors and multiples.       Pupils understand the invesse relationship between factors and multiples.       Pupils understand that a multiple.       Pupils understand that a multiple.       Pupils understand that a multiples.       Pupils can use concrete and pictover interese.         Pupils know that 1 is a factor of applied when multiples.       Pupils understand the invesse relationship between factors and multiples.       Pupils can use concrete and pictover interese.       Pupils understand that a multiple.       Pupils can use concrete and pictover interese.       Pupils can use concrete and pictors of the numbers.       Pupils understand that some numbers.       Pupils can use concrete and pictorial representations to build multiples.         Multiple - The result of multiplying a number function for guestive interger.       Pupils understand that some numbers.       Pupils understand tha some numbers.	Approximate - something is almost, but not completely, accurate or exact; roughly									
Image: White of the word and include expressions of the							°			<b>A</b> MAR
Subject : Mathematics       Year : 5       Unit : Multiplication and Division         Vocabulary       Image: Construction of the product of the methods of the me		WISTOV	w prim	iary so	shool '	- Curi	riculur	n piar	0	
Vocabulary         Knowledge         Understanding         Skills           Vocabulary         Knowledge         Understanding         What children will understand         What children will understand the reaching         Yeaching         Kulls           Multiplication Multiplied by Groups of Times         •         Pupils know that 1 is a factor of all positive integers.         •         Pupils know that 1 is not a prime number (it only has one factor).         •         Pupils know that 1 is not a prime number (it only has one factor).         •         Pupils know that 1 is not a prime number (it only has one factor).         •         Pupils know that 2 is the only even prime number.         •         Pupils understand that a multiple of a number stand that a multiple of a number stand that some number stand another whole number.         •         Pupils can use concrete and potorial representations to build multiples of numbers.           •         Pupils know the squared numbers         •         Pupils understand that some number stand that some numbers only have two factors         •         Pupils can recall prime numbers	Subject : Mathematics		Year	: 5			Unit : I	Multiplice	ation and	1 Division
Vocabulary         Knowledge         Understanding         Skills           Vocabulary         Knowledge         Understanding         What children will understand         What children will understand           Define the word and include etymology if useful.         Learning         Teaching         Assessment         Learning         Teaching         Assessment           Multiplication Multiply Multiple         Pupils know that 1 is a factor of all positive intergers.         Terms factor of all positive intergers.         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 1 is not a prime number (it only has one factor.).         Pupils know that 2 is the only even prime number.         Pupils know that 2 is the only even prime number.         Pupils know that 5 is the only even prime number.         Pupils know that 5 is the only even prime number.         Pupils know that 2 is the only even prime number. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
VocabularyKnowledgeUnderstandingSkillsWhat children will knowWhat children will understandWhat children will be able to doDefine the word and include etymology if useful.LearningTeachingAssessmentLearningTeachingAssessmentWhat children will understandLearningTeachingAssessmentLearningTeachingAssessmentWhitplication Multiplied by Groups of Times•Pupils know that 1 is a factor of all positive intergers.•Pupils know that 1 is not a prime number (it only has one factor.)•Pupils understand that a multiple a fraction).•Pupils know that 1 is not a prime number (it only has one factor.)•Pupils understand that a multiple of a number is the product of the number.•Pupils understand that a multiple of a number is the product of the number.•Pupils can use systematic methods to find all the factors of a positive integer.Multiple - A multiple that is•Pupils know the squared numbers•Pupils understand that some number.•Pupils understand that some number.•Pupils can ind comon factors of two numbers.Common multiple - A multiple that is•Pupils know the squared numbers•Pupils understand that some numbers only have two factors•Pupils can recall prime numbers.Volution•Pupils know the squared numbers•Pupils understand that some numbers only have two factors•Pupils can ind comon factors of two numbers.Multiple - A multiple that is•P				J						>
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etymology if useful.RememberingTestingProcisingCoachingObservingRetlectingFacilitatingEvaluatingMultiplication Multiply Multiplied by Groups of Times Repeated addition• Pupils know that 1 is a factor of all positive intergers.• Pupils know that 1 is a factor of all positive intergers.• Pupils understand the investse relationship between multiplication and division.• Pupils understand the investse relationship between factors and multiple.• Pupils understand that a multiple.• Pupils can use systematic methods to find all the factors of a positive integer.Multiple - The result of multiplying a number by an integer (not by a fraction).• Pupils know the notation for squared is 2.• Pupils understand that some numbers.• Pupils understand that some number is the product of the number.• Pupils understand that some numbers.• Pupils can use concrete and pictorial representations to build multiples of numbers.Common multiple - A multiple that is• Pupils know the squared numbers• Pupils understand that some numbers only have two factors• Pupils can recall prime numbers.	Define the word and include	Learning	Teachina	Assessment	Learning	Teachina	Assessment	Learning	Teaching	Assessment
Multiplication Multiply Multiplied by• Pupils know that the commutative law can be applied when multiplying three or more numbers.• Pupils understand the relationship between multiplication and division.• Pupils have automatic recall of multiplication and division.Groups of Times Repeated addition• Pupils know that 1 is a factor of all positive intergers.• Pupils understand the invesrse relationship between factors and multiples.• Pupils understand the invesrse relationship between factors and multiples.• Pupils can use systematic methods to find all the factors of a positive integer.Multiple - The result of multiplying a number by an integer (not by a fraction).• Pupils know the notation for squared is 2.• Pupils understand that some numbers• Pupils understand that some number sonly have two factors• Pupils can recall prime numbers.Common multiple - A multiple that is• Pupils know the squared numbers• Pupils understand that some numbers only have two factors• Pupils can recall prime numbers.	etymology if useful.	Remembering	Telling	Testing	Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating
	MultiplicationMultiplyMultiplied byGroups ofTimesRepeated additionMultiple - The result of multiplying anumber by an integer (not by afraction).Common multiple - A multiple that is	<ul> <li>Pupils kr law can multiplyi</li> <li>Pupils kr positive</li> <li>Pupils kr number</li> <li>Pupils kr prime nu</li> <li>Pupils kr squared</li> <li>Pupils kr</li> </ul>	iow that the c be applied v ng three or m iow that 1 is c intergers. iow that 1 is n (it only has on iow that 2 is th umber. iow the notat is <sup>2</sup> .	commutative when nore numbers. a factor of all not a prime ne factor.) he only even ion for red numbers	<ul> <li>Pupils ur betweel division.</li> <li>Pupils ur relations multiple:</li> <li>Pupils ur of a nun number number.</li> <li>Pupils ur number.</li> </ul>	nderstand the n multiplication anderstand the ship between s. Inderstand that and another inderstand that s only have two	relationship on and invesrse factors and t a multiple oduct of the whole t some vo factors	<ul> <li>Pupils ha multiplic within th</li> <li>Pupils ca to find a integer.</li> <li>Pupils ca pictorial multiple</li> <li>Pupils ca two nun</li> <li>Pupils ca</li> </ul>	ave automatic ation and div ne times table an use system all the factors an use concre representations of numbers. an find common hbers. an recall prim	c recall of rision facts s. atic methods of a positive ate and ons to build non factors of e numbers



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Vocabulary	<b>Knowledge</b> What children will know	<b>Understanding</b> What children will understand	<b>Skills</b> 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			
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"), then they are the "common factors". Multiplicand – The number to be multiplied	<ul> <li>Pupils know the notation for cubed is <sup>3</sup>.</li> <li>Pupils know that the number which is left over when dividing is the remainder.</li> <li>Stem Sentences</li> <li>"A multiple of a given number is the product of the given number and any whole number."</li> </ul>	<ul> <li>numbers are known as prime numbers.</li> <li>Pupils underdstand that squared numbers are derived from multiplying a number by itself.</li> <li>Pupils understand that cubed numbers are derived by multiplying a number by itself three times e.g. 6x6x6</li> <li>Pupils understand what is happening in each step of the long multiplication algorithm.</li> </ul>	<ul> <li>Pupils can establish whether a number up to 100 is a prime number.</li> <li>Pupils can show squared numbers using concrete and pictorial representations.</li> <li>Pupils can multiply four-digit numbers by a single-digit number using a short multiplication algorithm.</li> <li>Pupils can use partitioning to multiply up to 4-digi numbers by a</li> </ul>			
<b>Multiplier –</b> The number by which the multiplicand is multiplied by	"A factor of a given number is a whole number that the given number can be divided by without giving a remainder."	<ul> <li>Pupils understand the role of the zero (place holder) when using the long multiplication algorithm.</li> <li>Pupils understand the short division method by using place value</li> </ul>	<ul> <li>2-digit number.</li> <li>Pupils can use long multiplication to multiply up to 4-digit numbers by a 2-digit number or a 3-digit number by a 2-digi number.</li> </ul>			
<b>Product –</b> The result of a multiplication Multiplication:	"21 is a multiple of 3.3 is a factor of 21."	counters to partition a number and then group.				
6 × 3 = 18 Factor (or Multiplier) (or Multiplicand)	<ul><li>"21 is a multiple of 3, so</li><li>2,100 is a multiple of 300"</li><li>2,100 is a multiple of 3"</li></ul>					
Division Dividing Divide Divided by Divided into Grouping Sharing Shared equally Left over Remainder Equal groups of	"2 times 4 ones is equal to 8 ones: write 8 in the ones column." "2 times 3 tens = 6 tens: write 6 in the tens column." "8 tens divided by 4 is equal to 2 tens: write 2 in the tens column." "4 ones divided by 4 is equal to 1 one: write 1 in the ones column."					



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Vocabulary	What	Knowledge t children wil	l know	<b>l</b> What ch	<b>Understanding</b> What children will understand			<b>Skills</b> 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	
<b>Dividend –</b> The amount that you want to divide up.										
Divisor – The number we divide by.										
<b>Quotient -</b> The answer after we divide one number by another.										
dividend ÷ divisor = quotient.										
<b>Commutative law -</b> 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.										
<ul> <li>Prime number - A number that is only divisible by itself and 1 to leave a whole number.</li> <li>Composite number - A whole number that can be made by multiplying other whole numbers.</li> </ul>										
<b>Square number -</b> the number we get after multiplying an integer (not a fraction) by itself.										
<b>Cubed number -</b> The whole number is used <b>three times</b> , just like the sides of a cube.										



PAGE 6

🛱 Orton	Wistow Primary Se	chool — Curriculur	n Plan 🛛 👫
Subject : Mathematics	Year:5	Unit :	Decimals
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Vocabulary	<b>Knowledge</b> What children will know	<b>Understanding</b> What children will understand	<b>Skills</b> 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
tenths hundredths thousandths decimal decimal fraction decimal point decimal place decimal equivalent	<ul> <li>Pupils know what the decimal point means</li> <li>Pupils know tenths are worth more than hundredths and hundredths are worth more than thousandths.</li> <li>Pupils know that 1 tenth = 1/10 = 0.1</li> <li>Pupils know that 1 tenth = 1/10 = 0.1</li> <li>Pupils know that 1 tenth = 1/10 = 0.1</li> <li>Pupils know that 1 tenth = 1/10 = 0.1</li> <li>Pupils know that 1 is 10 times as much as 0.1.</li> <li>Pupils know that 1 hundredth = 1/100 = 0.01</li> <li>Pupils know that there are ten 0.01 in 0.1.</li> <li>Pupils know that 0.1 is 10 times as much as 0.01</li> <li>Pupils know that 1 thousandth = 1/1000=0.001</li> <li>Pupils know that there are ten 0.001 in 0.01, one hundred 0.001 in 0.1 and one thousand 0.001 in 1.</li> <li>Pupils know to look at the digit in the first decimal place when identifying which number is bigger</li> </ul>	<ul> <li>Pupils understand the place value of each digit in a number with 2 decimal places</li> <li>Pupils understand the relative size of plave-value blocks to identify the different values of decimal numbers.</li> <li>Pupils understand how to round a decimal to the nearest whole number.</li> <li>Pupils understand how to round a decimal to the nearest tenth.</li> <li>Pupils understand the process of exchanging whole numbers into tenths and tenths into hundredths to subtract decimals efficiently.</li> <li>Pupils understand the links with number bonds to 10, 100 and 1000 when adding decimals.</li> <li>Pupils understand the importance of lining up the decimal point in order to ensure the correct place value when adding and subtracting numbers with different decimal places.</li> </ul>	<ul> <li>Pupils can show decimal numbersusing concrete representations.</li> <li>Pupils can rename tenths, hundredths and thousandths.</li> <li>Pupils can partition decimal numbers in different ways.</li> <li>Pupils can convert fractions into deciamals and vice versa.</li> <li>Pupils can compare and order decimal numbers with up to three decimal places.</li> <li>Pupils can place decimal numbers on a number line.</li> <li>Pupils can use concrete representations to add and subtract decimal numbers.</li> <li>Pupils can use their understanding of column addition when adding and subtracting decimal numbers.</li> <li>Pupils can lay out the column method accurately using decimal numbers.</li> <li>Pupils can use a number line to count on from a smaller decimal to a larger decimal.</li> </ul>



**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 Learnina Teaching Assessment Learnina Teachina Assessment Learnina Teachina Assessment etymology if useful. Remembering Telling Testing Practising Coaching Observing Reflecting Facilitating Evaluating Pupils understand the importance Children can find complements • • 1 is 10 times the size of one-tenth. of zero as a place holder when which sum to make 1. adding and subtracting decimal Pupils can apply their knowledge One-tenth is 10 times the size of onenumbers. of calculating decimals to real life Pupils understand the effect of hundredth. • contexts such as pounds and multiplying and dividing both pence and measures. 1 is 100 times the size of oneintegers and decimal numbers by Pupils can multiply decimal • hundredth. multiples of 10 (Highlighting the numbers by 10, 100 and 1000. misconception of adding a zero at Pupils can divide numbers with • 10 tenths is equal to 1 one. the end of the original number.) decimals by 10, 100 and 1000. Pupils can use place value charts 10 hundredths is equal to 1 tenth. to show the effect of multiplying and dividing numbers by multiples 100 hundredths is equal to 1 one. of 10. 18 hundredths is equal to 10 hundredths and 8 more hundredths. 10 hundredths is equal to 1 tenth. So 18 hundredths is equal to 1 tenth and 8 more hundredths, which is 0.18. Three hundredths is zero-point-zerothree.



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Vocabulary	<b>Knowledge</b> What children wil	<b>.</b> II know	What cł	<b>Understandir</b> hildren will ur	<b>ng</b> Inderstand	What chil	<b>Skills</b> dren will be	able to do
Define the word and include etymology if useful.	LearningTeachingRememberingTelling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating
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 mixed number – a whole number and a fraction combined into one number numerator,	<ul> <li>Pupils know how man make a whole.</li> <li>Pupils know that wher denominator increase fraction is getting smother subtracting fractions is as a denominator, the denominator remains vante denominator remains.</li> <li>Pupils know that multiple written as repeate</li> <li>Pupils know that wher a fraction by a whole denominator remains.</li> <li>Pupils know that — of same as - x</li> <li>Stem Sentences</li> <li>The whole is divided into 4 and 1 of those parts is show that and 3 of those parts.</li> <li>To find <sup>1</sup>/<sub>5</sub> of 15, we divided b to 3, so <sup>1</sup>/<sub>5</sub> of 15 is equal to the second secon</li></ul>	A equal parts A equal parts A equal parts A equal parts A equal parts added. 12 equal 5 are shaded. 15 into 5 by 5 is equal 3.	<ul> <li>Pupils un multiplic related fraction</li> <li>Pupils un multiplic convert imprope</li> <li>Pupils un increasi sequen</li> <li>Pupils un intervals number</li> <li>Pupils un multiple denomi</li> <li>Pupils un common and orce</li> <li>Pupils un common fraction denomi subtrac denomi</li> <li>Pupils un common two fraction denomi</li> <li>Pupils un common two fraction denomi</li> <li>Pupils un common two fraction denomi</li> <li>Pupils un into who</li> <li>when a mixed n</li> </ul>	nderstand hove cation and dive to finding equi- s. Inderstand hove cation and dive tractions and dive tractions and dive tractions and the tractions and the tractions and the set fractions and hove to find a con- tractor. Inderstand hove to find a con- tractor. Inderstand hove the fractions. Inderstand hove the fractions and hove the fractions with the fractions with the fractions with the fractions with the fractions with the fractions with the fractions with the fractions with the fractions with the fractions with the	w vision are uivalent w to use vision to ers into nd vice versa. actions are sing in a w to find the ctions on a w to use mmon w to use to compare w find a or between one of the nmon to add or h different w partitioning is helpful btracting	<ul> <li>Pupils ca pictoria equivala</li> <li>Pupils ca method</li> <li>Pupils ca number using ba pictoria</li> <li>Pupils ca mixed n</li> <li>Pupils ca given fra Pupils ca fraction are muli</li> <li>Pupils ca mixed n</li> <li>Pupils ca mixed n</li> <li>Pupils ca bictoria multiply number</li> <li>Pupils ca pictoria multiply number</li> </ul>	an use concre l representation ent fractions. an use the ab- to find equiv an represent ri- s and improp ar models and l representation an place frac- umbers on a an count up of actions. an find missing ence. an compare of s where the of tiples of the so an add and s umbers. an use concre l representation fractions by v s. an multiply mi ole number.	ete and ons to show estract alent frctions. mixed er fractions d other ons. tions and number line. and down in g fractions in and order lenominators ame number. ubtract ete and ons to whole ixed numbers



OWPS Curriculum 2.0

	Knowledge					M			
Vocabulary	What	Knowledge children will	know	<b>l</b> What ch	<b>Inderstandir</b> ildren will ur	<b>ng</b> nderstand	What chi	<b>Skills</b> dren will be	able to do
Define the word and include	Learning	Teaching	Assessment	Learning	Teaching	Assessment	Learning	Teaching	Assessment
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	Three-fifths is find 3 one-fift of 40 by divic multiply by 3. $\frac{1}{4}$ and $\frac{3}{12}$ are of the same po	equal to 3 or ths of 40, first t ding by 5, and equivalent be rtion of 4 as 3	ne-fifths. To find one-fifth d then ecause 1 is is of 12.	Pupils un commut fractions	iderstand the ativity when by whole nu	concept of multiplying imbers.	Kenecung	rociniciing	



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Subject : Mathematics		Year :	5			Unit :	Percento	Iges	
	Knowledge						SWY		
Vocabulary	What	Knowledge children wil	I know	Understanding           ow         What children will understand         What children will understand				<b>Skills</b> Idren 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
Proportion in every, for every per cent, % - out of one hundred. Derived from the Latin per centum, meaning "hundred" or "by the hundred". percentage,	<ul> <li>Pupils kn out of a</li> <li>Pupils kn</li> <li>Stem Senten</li> <li>60 out of 100</li> <li>50 % is equive</li> <li>25% is equive</li> <li>75% is equive</li> </ul>	ow that per o hundred. ow the symbol ces ) is 60 per cen alent to ½. alent to ¼.	cent means ol % ht.	<ul> <li>Pupils up proport</li> <li>Pupils up relates thundred</li> <li>Pupils up of percent decimon</li> </ul>	nderstand tha rage is a mea on. nderstand tha o 'number of d'. nderstand the entages, fract ls.	at sure of at 'per cent' parts per e connection tions and	<ul> <li>Pupils w represe differen</li> <li>Pupils c a deno percen</li> <li>Pupils c denomi 100 into</li> </ul>	ill recognise of ntations which t parts of a hu an convert a minator of 100 tage. an convert fro inators that ar hundredths.	different h shows undred. fraction with D into a actions with re factors of



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Subject : Maths	Year :	5			Unit : S	Statistics				
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(?) (?)		Knowledge						N.V.		
Vocabulary	<b>Knowledge</b> What children wil	know	<b>U</b> What ch	I <b>nderstandin</b> ildren will un	<b>g</b> derstand	What chi	<b>Skills</b> ildren will be	able to do		
Define the word and include etymology if useful.	LearningTeachingRememberingTelling	Assessment Testing	Learning Practising	Teaching Coaching	Assessment Observing	Learning Reflecting	Teaching Facilitating	Assessment Evaluating		
Line graph, continuous data, conversion graph represent group, set list, table, two-way table label, title, axis, axes diagram most popular, most common least popular, least common maximum/minimum value outcome	<ul> <li>Pupils know that read graph at specific poir information about one based on the other.</li> <li>Pupils know that data represented in tables.</li> <li>Pupils know that two-vshow more than one pinformation about ear for example the numb and children in a schow many do/do not wea</li> <li>Pupils know that timet special type of two-w</li> </ul>	ing the hts gets e variable can be way tables piece of ch variable, per of adults pol and how r glasses. rables are a ay table.	<ul> <li>Pupils un points us is used b certain a the give</li> <li>Pupils un graphs s</li> <li>Pupils un betweer estimate</li> <li>Pupils un possible table ca meaning at both flabels.</li> <li>Pupils un importar available read the informat know.</li> </ul>	derstand that ing a straight ecause they of exact values n values at two derstand that how exact values the values at two derstand that answers that n show, ident of each cell the horizontal derstand why to have this e and how ar timetable to ion they may	t joining dashed line cannot be es between to points. t conversion lues. / the data ire only range of a two-way ifying the by looking and vertical / it is information nyone can understand wish to	<ul> <li>Pupils of to use k and low approp</li> <li>Pupils of betwee of time certain inference present</li> <li>Pupils of betwee</li> <li>Pupils of informod extract questio</li> <li>Pupils of the tab numbe given to</li> <li>Pupils of timetak timetak swimmi</li> </ul>	an decide wh by looking at the vest values and riate scale. an find the dif- entwo points, the spent above/I points and mo- ces based on in- red to them. an estimate pre- entwo interval an work out the thion that they from the table ns on the datc an find missing le, such as the r or one of the potals. an read and in- poles such as TV poles for local b- ng pools.	at intervals ne greatest d using an ference the amount below ake information oints s. ne need to to answer a. g values in total parts from nterprest guides and uses and		



Crton	Wistov	» Prim	ary So	2h	100	- Cun	riculur	n Pla	n		
Subject : Mathematics		Year:	5				Unit :	Position	and Direc	ction	
									M		
Vocabulary	What	Knowledge children will	know		l What ch	<b>Inderstandir</b> nildren will ur	<b>ng</b> Inderstand	What c	<b>Skills</b> hildren will be	able to do	
Define the word and include	Learning	Teaching	Assessment	L	earning	Teaching	Assessment	Learning	Teaching	Assessment	
Coordinates Axes X axis Y axis Origin (0,0) Quadrant First quadrant 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	<ul> <li>Pupils kn as the oi</li> <li>Pupils kn reflected use a mi point is o</li> <li>Pupils kn shapes, vertex a</li> <li>Pupils kn shapes, first (left/ Y axis (u)</li> <li>Pupils kn between translatio</li> </ul>	iow the point rigin. iow that to fin d point is loca fror or count h away from the iow that wher you should for t a time. iow when tran you move alo right) and the p/down) iow the different on reflection ar on.	(0,0) is know d where a ted, you can now far the e mirror line. In translating cus on one inslating ong the X axis en along the ence	•	Pupils un in a coor coordin Pupils un is fixed ( point co coordin Pupils un the qua exactly other or Pupils un reflect of mirror in Pupils un shape is does no orientat Pupils un translati and Y c how do affect th coordin	nderstand the ordinate repre- ate and the si- represents the ate. Inderstand the does not mov- an be plotted ates, so it can inderstand that ity of being m similar parts for around an ap inderstand that translated, the t change size ion. Inderstand the oordinate. For es a translation in a the X co condinate. For es a translation in a the X co condinate. The X co changed)	first number sents the X econd e Y coordinate ve) wheras a at different be moved. It symmetry is nade up of acing each kis. It when you have a the shape itself nor effect of the oordinate r example, in of 3 up Y coordinate	<ul> <li>Pupils coord</li> <li>Pupils and g</li> <li>Pupils mear</li> <li>Pupils accu</li> <li>Pupils shape</li> <li>Pupils shape</li> <li>Pupils given</li> </ul>	can plot points linate grid. can identify po jive the coordir can explain whis. can translate of rately. can record the e after a transla bordinates corre- can identify sy es. can draw a rei a shape and c	s on a bints on a grid hates. hat translation a shape e vertices of a tion and write ectly. mmetrical flection when a mirror line.	



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Vocabulary	Knowledge			Understanding			Skills		
	What children will know			What children will understand			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
				Pupils understand that different					
				mirror lines produce different					
				reflections.					

💭 🛛 Orton Wistow Primary School – Curriculum Plan 🙀											
Subject : Mathematics Year : 5					Unit : Properties of Shape						
							M				
Vocabulary	<b>Knowledge</b> What children will know			<b>Understanding</b> What children will understand			<b>Skills</b> 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		
2-D shape Polygon (from Greek "many-angled) Quadrilateral (Latin quadrilaterus, from quadri- "four" and latus "the side, flank of humans or animals, lateral surface,") Regular, irregular Vertex, vertices sides point, pointed Triangles	<ul> <li>Pupils know that angles are measured in degrees (°)</li> <li>Pupils know that complete turn is 360 dgrees.</li> <li>Pupils know that half a turn is 180 degrees.</li> <li>Pupils know that a quarter turn (right-angle) is 90 degrees.</li> <li>Pupils know a reflex angle is greater than 180 degrees but less than 360 degrees.</li> <li>Pupils know that angles on a</li> </ul>			<ul> <li>Pupils understand how to read both inside and outside scales on a protrator.</li> <li>Pupils understand that two right angles are equivalent to a straight line.</li> <li>Pupils understand that a straight line is half of a turn.</li> <li>Pupils understand when they should measure an angle and when they can calculate the size of an angle from given facts.</li> </ul>			<ul> <li>Pupils can use their knowledge of right-angles to estimate the size of acute and obtuse angles.</li> <li>Pupils can use a protractor to draw angles of a given size.</li> <li>Pupils can calculate missing angles on a straight line.</li> <li>Pupils can calculate missing angles around a point.</li> <li>Pupils can identify 3D shapes from their 2D nets.</li> </ul>				



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Vocabulary	What	Knowledge	I know	<b>l</b> What ch	Understanding			<b>Skills</b>		
Define the word and include		Terebing								
Define the word and include	Learning	reaching	Assessment	Learning	reaching	Assessment	Learning	reaching	Assessment	
				Practising	Coaching	Observing	Reflecting	Facilitating	Evaluating	
Isosceles (Greek Isoskeles,	PUplis kn	iow that the p	position of the							
from isos equal + skeios ieg.)		calling an ang	gie does not							
scalene (Greek skalenos "Unequal";	is deterr	ne size of the o	angle, which							
Fauilatoral (Latin acquilatoralis	turn bot	mined by me								
from acquilaterus (caual-sided)	Pupils kr	ween ne two	enath of the							
nom dequidieros equal-sidea j	<ul> <li>Topis kit</li> </ul>	s not affect t	the size of the							
Quadrilaterals	angle bu	etween them								
Square	angle be		•							
Rectangle										
Rhombus										
Paralleloaram	20°		<u>0</u> ,							
Trapezium	20'	-	0*							
3-D shape	$\leq$	20*	0.							
Face		T								
Edge		20°	0°							
vertex, vertices	Pupils kn	now that "reg	ular" means							
apex	all the si	des and angl	es of a shape							
prism	are equ	al.								
net										
	Stem Senten	ces								
Angle										
Right-angle	"An acute a	ngle is smalle	er than a right							
Acute	angle."									
Obtuse	"An obtuse o	angle is large	r than a right							
Reflex	angle but les	ss than the an	igle on a							
Clockwise	straight line.									
Anti-clockwise	A reflex dhe	gie is larger fr	there the							
protractor	angle for a f	line, DUT less	man me							
line		uii iurn. nalo is loss th	an 90° " "An							
Line	An acute d									
Morizonia		e is greater in								
Vertical	ress man 180		than 240° "							
rarailei	greater man		man 300°.							



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Vocabulary Define the word and include etymology if useful. Perpendicular	KnowledgeWhat children will knowLearningTeachingAssessmentRememberingTellingTesting	UnderstandingWhat children will understandLearningTeachingAssessmentPractisingCoachingObserving	SkillsWhat children will be able to doLearningTeachingAssessmentReflectingFacilitatingEvaluating		
👫 Orton 🖞	Wistow Primary Se	chool — Curriculur	n Plan 🛛 🏔		
Subject : Mathematics	Year : 5	Unit : l	Measures		
			M.		
Vocabulary	<b>Knowledge</b> What children will know	<b>Understanding</b> What children will understand	<b>Skills</b> What children will be able to do		
Define the word and include etymology if useful.	LearningTeachingAssessmentRememberingTellingTesting	LearningTeachingAssessmentPractisingCoachingObserving	LearningTeachingAssessmentReflectingFacilitatingEvaluating		
length centimetre metre millimetre kilometre mile foot, feet inch, inches weight mass tonne kilogram gram pound	<ul> <li>Pupils know how to line up a ruler accurately.</li> <li>Pupils know that milli- means 1/1000</li> <li>Pupils know that there are 10 mm in 1 cm.</li> <li>Pupils know that 1 mm is the same as 0.1 cm.</li> <li>Pupils know that there are 1000 metres in a kilometre.</li> <li>Pupils know that 1m is the same as 0.001km</li> <li>Pupils know which operation to use when converting a smaller unit</li> </ul>	<ul> <li>Pupils understand the connections between centimetres and metres.</li> <li>Pupils understand the connections between metres and kilometres.</li> <li>Pupils understand the difference between imperial and metric units of measure.</li> <li>Pupils understand the link between multiplying and dividing by 10, 100 and 1,000 when converting between units of length, mass and capacity.</li> <li>Pupils understand the role of zero as a place holder when performing some calculations, as</li> </ul>	<ul> <li>Pupils can read the scale of a ruler accurately to measure in millimetres and centimetres.</li> <li>Pupils can write measurements as decimals.</li> <li>Children read, write and recognise all metric measures for length, mass and capacity.</li> <li>Pupils can convert between centimetres and metres, including decimals.</li> <li>Pupils can convert between kilometres and metres, including decimals.</li> </ul>		



OWPS Curriculum 2.0

Vocabulary Knowledge	Understanding children will understand	Skills			
What children will know What c	To making Assessment	<b>Skills</b> 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       Procising         ounce       on dimeasurement to a larger one and vice versa.       and vice versa.       Pupils know the difference between capacity (the amount an object can contain) and volume (the amount actually in an object).       Pupils unwhat what e secone       Pupils unwhat what e         a.m., p.m. digital/analogue clock/watch, timer 12-hour clock time, 24-hour clock time       Pupils know the unit of measure that would be the most appropriate to measure different items.       Pupils underse approximately 2.2 pounds.       Pupils underse approximately 2.2 pounds.         Pupils know that 1 linch is approximately 2.5 cm       Pupils know there are 12 months in a year.       Pupils know there are 7 days in a week.       Pupils know there are 7 days in a week.         Pupils know there are 2 days in a week.       Pupils know there are 24 hours in an hour.       Pupils know there are 24 hours in aday.         Pupils know there are 24 hours in a day.       Pupils know there are 24 hours in a day.       Pupils know there are 30 minutes in aday.	Coaching Observing ons will involve varied ers of decimal places. understand how to work out each mark is worth on a understand the connections een hours, minutes and ds. understand that time is not a ial unit and so number lines more efficient methos when ating time.	ReflectingFacilitatingEvaluating•Pupils can identify 1 tenth and 1 hundredth of a kilogram.••Pupils can convert between grams and kilograms by dividing or multiplying.••Pupils can compare the mass of different items by converting.•Pupils can convert between metres, centimetres and millimetres; litres and millilitres; kilograms and grams; seconds, minutes and hours etc•Pupils can use a ruler to measure 2-D shapes.•Pupils can use decimals to express units of measure when converting.•Pupils can determine 'greater than', 'less than' and 'equal to'.•Pupils can find fractions of time and convert these into decimals using division.•Pupils can find fractions of time and convert these into decimals using division.•Pupils can convert between days and hours.			



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Vocabulary	Knowledge			Understanding			Skills		
	What children will know			What children will understand			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
	Stem Sentences There are 1000 grams in a kilogram so to convert grams to Kilograms we divide by 1000. There are 100 centimetres in a metres so when we convert centimetres to metres, we divide by 100.								

## Orton Wistow Primary School – Curriculum Plan

Subject : Maths

Year : 5

Unit: Area and perimeter



			M			
Vocabulary	<b>Knowledge</b> What children will know	<b>Understanding</b> What children will understand	<b>Skills</b> What children will be able to do			
Define the word and include	Learning Teaching Assessment	Learning         Teaching         Assessment           Practising         Coaching         Observing	Learning         Teaching         Assessment           Reflecting         Exclusion         Evaluation			
Metre Kilometre Perimeter Length Width Rectangle Rectilinear Dimensions	<ul> <li>Children know that the perimeter is the distance around the outside of a two-dimensional shape.</li> <li>Pupils know the different methods of finding the perimeter, for example adding all four sides separately, adding the length to the width and then doubling, or doubling the length and the width and then adding the results.</li> <li>Pupils know a rectilinear shape is a shape that has only straight sides and right angles. This can look like two or more rectangles that have been joined together and is sometimes referred to as a compound shape.</li> <li>Pupils know a regular shape is a two-dimensional shape with straight sides.</li> <li>Pupils know a regular shape is a two-dimensional shape with equal sides and angles, so a square is a regular rectangle.</li> <li>Pupils know that area is measured in square centimetres (cm<sup>2</sup>)</li> <li>Pupils know that other units such as mm<sup>2</sup>, m<sup>2</sup> and km<sup>2</sup> are also examples of units of area.</li> <li>Pupils know that one way to obtain an estimate is to find the total number of complete squares,</li> </ul>	<ul> <li>Pupils understand to measure from the zero mark.</li> <li>Pupils understand which method is most efficient for finding the perimeter.</li> <li>Pupils understand the connection between the perimeter of some rectilinear shapes and the rectangle that can be drawn around the shape.</li> <li>Pupils understand that cm is a measure of length and cm<sup>2</sup> is a measure of area.</li> <li>Pupils understand that we multiply the length by the width to calculate the area of a rectangle.</li> <li>Pupils understandthat a compound shape is made up from other shapes and that the area of the compound shape remains the same, whichever way the shape is split.</li> <li>Pupils understand that an estimate is not exact and other people may find a different estimate.</li> <li>Pupils understand that for larger shapes, the areas of rectangles within them can be found by multiplying the length by the width, rather than counting all the squares individually.</li> </ul>	<ul> <li>Pupils can use a ruler accurately to measure lengths.</li> <li>Pupils can use their understanding of perimeter to calculate missing lengths.</li> <li>Pupils know that when calculating the perimeter of a rectilinear shape, they should mark sides that they have already included in their total, to avoid counting sides more than once.</li> <li>Pupils can use their knowledge of regular shapes to find the perimeter by multiplying by the number of sides.</li> <li>Pupils can use the perimeter of a shape to find a missing side.</li> <li>Pupils can find the areas of shapes by counting squares.</li> <li>Pupils can count squares to estimate the areas of non-rectilinear shapes.</li> <li>Pupils can use their knowledge of regular shape to support finding the area.</li> <li>Pupils can use their knowledge of a shape to support finding the area.</li> <li>Pupils can use their knowledge of a square is covered.</li> </ul>			



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Vocabulary	Knowledge			Understanding			Skills		
	What children will know			What children will understand			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
	then inc half of it than hal	lude a square is coloured, b f is coloured.	if more than out not if less						

