What's in a word?

Along with learning mental and written strategies for solving division calculations, your child will also develop their understanding of the language associated with division. Their knowledge of these terms will build year on year and will include by Year 6 words such as:

, share, share equally
one each, two each, three each...
group in pairs, threes... tens
equal groups of
divide, division, divided by,

divided into, remainder

factor, quotient, divisible by, Halve,

Array

Pamphlet produced by Mr M Goodwin Assistant Principal

Ocker Hill Academy



Ocker Hill Academy

Gospel Oak Road Tipton West Midlands DY4 0DS

Phone: 0121 556 0445 Fax: 0121 556 7371 www.ockerhillacademy.co.uk

Division and your child-A guide to learning in the

academy

Ocker Hill

Academy

Division at Ocker Hill Academy

As your child progresses through the Junior phase, our skilled teachers and support staff will provide them with exciting opportunities to develop their existing mental and written strategies that they bring from their prior learning. Your child will develop their strategies to become skilled mathematicians who have the confidence to apply their knowledge to real life problems.

The academy has an agreed method for division that your child will work with. This will help them to calculate small amounts initially, before progressing on to increasingly complex numbers and, towards the end of the key stage, decimal values in the context of money and measures.

Year 3	Year 4	Year 5	Year 6
The children will develop	The children will	The children will	The children will
their understanding of	start to use the bus	develop and refine	extend their
division as being	stop ()) as a	their chunking	chunking division
repeated subtraction on a	division sign.	division HTU ÷ U	$HTU \div TU$ (with
number line	They will be	(with and without	and without
For example	introduced to	remainders)	remainders)
$\land \land \land \land \land \land$	'Chunking division'	The children will	The children will
$\begin{pmatrix} -3 \\ -3 \end{pmatrix} -3 \end{pmatrix} -3 \end{pmatrix} -3 \end{pmatrix} -3 \end{pmatrix} -3 \end{pmatrix} -3 \end{pmatrix}$	of numbers that di-	write key facts for	write key facts
	vide exactly and that	1st 2nd 5th and 10th	for the required
$15 \ 12 \ 9 \ 6 \ 3 \ 0$	logvo romgindors	multiples of the	multiples of the
They will be taught the	The children will	divisor (as in $V4$)	divisor
relationship between	record key facts for	and extend to 20th	
multiplication and	$1^{\text{st}} 2^{\text{nd}} 5^{\text{th}}$ and 10^{th}	50 th and 100 th where	27)8 6 5 Key Facts
division	multiples of the	needed before	$1 \ge 27 = 27$
$4 \ge 3 = 12$	divisor	starting the calcula-	$2 \ge 27 = 54$
$12 \div 4 = 3$	Key Facts	tion	5 x 27 = 135
$12 \div 3 = 4$	4) 9 6 $1 \ge 4 = 4$	Key Facts	$10 \ge 27 = 270$
They will be practice	$2 \ge 4 = 8$	$6\overline{)}249$ 1 x 6 = 6	$20 \ge 27 = 540$
sharing situations and	So $5 \ge 4 = 2 = 0$	$2 \ge 6 = 12$	$50 \times 27 - 1350$
sentences	$2 4 \qquad 10 \ge 4 = 4 0$	5 x 6 = 30	50 x 27 -1550
How money groups of 2	4) 9 6	$10 \ge 6 = 60$	50
How many groups of 3	- 4 0 (10 x 4)		<u>3 2</u> rem 1
there are in 24:	<u> </u>	So $20 \ge 6 = 120$	27) 8 6 5
24÷3 =8		$50 \ge 6 = 300$	<u>- 5 4 0</u> (20 x27)
They will work with	-40 (10 x 4)	4 1 rem 3	² 3 ¹ 2 5
arrays (patterns) to help reinforce the idea	16	6) 249	- 2 7 0 (10 x27)
of equal sharing	$- 8 (2 \times 4)$	- 1 2 0 (20 x 6)	5 5
	8	129	$-54(2 \times 27)$
15÷3=	- 8 (2 x 4)	- 1 2 0 (20 x 6)	
	0		
	Then add the chunks	9	Then add the
	rnen aud the chullks	<u>- 6</u> (1 x 6)	chunks
15÷3=5	10+10+2+2=24	3	20+10+2=
	(Answer)	20+20+1 = 41 rem 3	32 rem 1 (Answer)