Week 1: Place Value	Week 2: Multiplication	We
	Practical fluency/Reasoning	<u>Practica</u>
<ul> <li>Lower: Partitioning: 7 is 3 and 4, and also 2 and 5 (number sense). Number bonds 10.</li> <li>Middle: Multiplying/Dividing by 0, 1, 10, 100. Number bonds 10/20/50.</li> </ul>	<b>Lower:</b> Counting before attempting group counting. Lots of practical resources (base ten, repeated addition, counting pairs, pairs of socks, KitKat). Real life and meaningful resources such as food. <b>Middle:</b> Introduction to symbols, legs of an animal, counting and pieterial shapping activities and pieterial	<b>Lower:</b> Sharing toys between tw and counters). Play acting pic questions, how do we share? <b>Middle:</b> Real life learning with for with the food and toys ask reason to symbols of division. Practice
<b>Higher:</b> Multiplying/Dividing by 0, 1, 10, 100, 1,000, 10,000. Number bonds to 100.	representations of what the groups are worth. Counting forwards and backwards in groups of 2,5,10. Step counting. <b>Higher:</b> Multiplication partitioning tables start with this method (if struggling other methods include: Column multiplication). Multiplication number problems. Recipes to cook for 6 or 12 if you have a recipe for 4 people etc.	statements to answer. Dividing s Higher: Fractions and division wi hands on and then applying this
<b>Curriculum Grid</b> : Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers; derived division facts to 3 digits (e.g. 600 / 3 = 200 can be derived from 2 x 3 = 6) Multiply whole numbers and those involving decimals by 10 and Divide whole numbers and those involving decimals by 10 and 1 Demonstrate an understanding of the composition of numbers to ability to recall number bonds to and within 10 and related subti 9 and 9 - 7 = 2) using visual representation	Curriculum Grid: Solve problems involving multiplication, including scaling by simple fractions (e.g. There is 500g in a bag of sugar. How much sugar is in one and a half bags?) Solve problems involving division, including problems involving simple rates (e.g. I bought three identical cakes for £6. How much did one cake cost?) Solve problems involving multiplication and division, using concrete objects, arrays, visual representations including the bar model, mental methods, and multiplication and division facts Solve one-step problems involving multiplication, calculating the answer by making equal groups using concrete objects and pictorial representations Solve one-step problems involving division by sharing, calculating the answer by using concrete objects and pictorial representations	Curriculum Grid: Derive division facts from the 3, 4 and Links the 2x table to 'doubling' and der Divide numbers up to three digits by a interpret remainders appropriately for to Understands division as 'grouping', e.g. using number lines Calculate mathematical statements for tables and write them using the multiple Represents multiplication and division to can be done in any order (commutative Understands multiplication as 'repeated step counting and representing calculate Write and calculate division statements numbers, using visual representations,
Language: number, number bonds.	Language: multiplication, times, groups of, lots of, multiply, equals	Language. Sharing, arriang, arriston, sec.
Week 4: Multiplication & Division	Week 5: Language Word Problems	Week 6: Multiplicat
<b>Lower:</b> Repetition- activities from week 2/3 to show the inverse. Share and then collect back – see	<b>Lower:</b> abstract – introduction to the symbols. Recap on what they mean and start to look at divide by 2 (intro to more abstract).	and form
the visual representation. <b>Middle:</b> Repetition- activities from week 2/3 to show the inverse. Share and then collect back – see the visual representation and the number statements next to it. <b>Higher:</b> Repetition- activities from week 2/3 to show the inverse. Share and then collect back – see the visual representation and the number statements next to it.	Language of word problems and HOW to solve a word problem (very basic – 1 step: How many legs of this giraffe, how many on 2 etc.) Middle: abstract understanding and solving number statements. Knowing that symbols <b>times and add</b> are getting bigger and subtraction and division is <b>reducing</b> . Higher: Same as above just higher numbers	Lower: recap learning (Kaho Middle: 'Groups' of in bags need 27: How many bags (Kahoot!) Higher: Attempt Entry Levels (especially for Year 9's).

## **eek 3:** Division Il fluency/Reasoning

vo people (practical with food, real life learning cnics with the food and toys ask reasoning

ood and practical resources. Play acting picnics ning questions, how do we share? Introduction al to start with then simple division number shapes – introduction to fractions.

ithin the 12x tables. Starting practical and to abstract questions.

8 multiplication tables

rived division facts to 'halving'

- one-digit or two-digit number, using chunking, and the context
- for 6/2 counting in twos and representing visually, e.g.

multiplication and division within the multiplication lication (×), division (÷) and equals (=) signs using arrays, showing that multiplication of two numbers e) and division of one number by another cannot d addition', e.g. 3x5 as 5+5+5, calculating answers by tions visually, e.g. using number lines rs, including for two-digit numbers times by one-digit e.g. a number line, including remainders

s/groups of. Starters match the word to activity, equals.

## tion & Division word problems Native assessments

ot!)

of. There are 10 carrots in the bag, we do we need? Formative assessments

s to match up with Upper School

## Maths MTP Planning: Time (Team = Hayley BL, Julianne B, Marc T)

Curriculum Grid:	Curriculum Grid:	Curriculum Grid:
Use inverses to show whether a multiplication or division numb incorrect Multiply numbers up to three digits by a one- or two-digit num Divide numbers up to three digits by a one-digit or two-digit nu and interpret remainders appropriately for the context Multiply numbers mentally drawing upon known facts Divide numbers mentally drawing upon known facts <b>Language:</b> inverse for checking their number sentences.	<ul> <li>Pupils can use compensation as a multiplication strategy, e.g. for 9 x 12, they work out that 10x12=120, and take 12 away to find the answer</li> <li>Solve problems involving multiplying and division, including integer scaling problems</li> <li>Solve problems involving multiplying and dividing, including using the distributive law to multiply two digit numbers by one digit</li> <li>Solve problems involving multiplication and division, including positive integer scaling problems (e.g. Tim had 5 stickers. Tom had three times as many stickers. How many stickers did Tom have?)</li> <li>Solve problems involving multiplication and division, using concrete objects, arrays, visual representations including the bar model, mental methods, and multiplication and division facts</li> <li>Solve one-step problems involving multiplication, calculating the answer by making equal groups using concrete objects and pictorial representations Solve one-step problems involving division by sharing, calculating the answer by using concrete objects and pictorial representations</li> <li>Language: Getting bigger, getting smaller, divide, share, multiply, altogether, provide arouns of</li> </ul>	Calculate mathematical statement multiplication tables and write the and equals (=) signs <b>Language:</b> inverse for checking their no

## Its for multiplication and division within the em using the multiplication $(\times)$ , division $(\div)$

umber sentences.