Children exceeding MARE (3a/4c)	Children at MARE (3b)	Children just below MARE (3c)	Children well below MARE (2a)
OV	WH	LB	SD
MW	ЈК	ОН	ET
ту	ЈК	JR	
OB	LL	BD	
AB	FM		
JB	LN		
ND	MP		
LE	JP		
RE	SF		
AG	GT		
тн			
CS			

This week's groupings:

Orange	Apple	Banana	Strawberry	Mango	Melon	Peach
(BA/A)	(BA/A)	(BA/A)	(BA/A)	(A+/AA)	(A+/AA)	(A+/AA)
LB	SD	ET	JR	ТН	OV	MW
LN	JP	JK	FM	JB	RE	ТУ
JK	GT	BD	LL	ND	OB	CS
MP	WH	SF	OH	AB	LE	AG

Week Beginning:	16th September 2013		Strand:	Calculating
Mental/oral <u>Objective</u> /focus:	Recall multiplication and division facts at speed.	Key <u>Objectives</u> :	Use practical 3) Derive and re Level 3) Derive and re correspondin Use knowled halving, to es Add or subtr Develop and thre Derive and thre Derive and thre Use knowled calculations. Refine and us numbers and	I and informal written methods to add and subtract two digit numbers. (C Level ecall all addition and subtraction facts for each number to 20. (C Level 3) ecall sums and differences of multiples of 10 and number pairs that total 100. (C ecall multiplication facts for the 2, 3, 4, 5, 6 and 10 times-tables and the g division facts. (C Level 3) ge of number operations and corresponding inverses, including doubling and timate and check calculations. (C Level 3) eact mentally combinations of one- and two-digit numbers. (C Level 3) use written methods to record, support or explain addition and subtraction of e- digit numbers. (C Level 3) ecall multiplication facts up to 10×10 , the corresponding division facts and numbers to 10 up to the tenth multiple. (C Level 4) ge of rounding, number operations and inverses to estimate and check (C Level 4) se efficient written methods to add and subtract two- and three-digit whole £.p (C Level 4)

Μ	Mental/Oral LO (WBT):	Main LO: derive and recall multiplication and division facts.			
	WALT recall multiplication and division facts at speed.	AA SC: Are able to derive and recall facts up to 10x10.	A SC: Begin to derive and recall facts up to 10x10.	BA SC: Are able to recall facts for the 2, 3, 4, 5, 6 and 10 times- table.	
		Vocabulary			
		Place			
	Activity	All - Teach - Teacher	Practise/Apply:		Play "Corners" to
	Complete speed tables. Pupils	Use a counting stick to help	Higher- Abacus 5.1, page 14		continue to
	have 5 minutes to complete as	children practise different times	Middle- Abacus 5.1, page 13		practise
	much of the square as	tables. Look in particular at the	Lower- Abacus 5.1, page 12		multiplication
	possible.	basics.	Special- Abacus 5.1, page 11		tables.
		Have a "function machine" on the	Extension: Abacus 5, Challenge, p. 5		

IWB. Can children determine the	Focus Group: Orange/Apple	Focus Group: Banana/Strawberry	
right multiplication table by	Challenge pupils to explore other	Challenge pupils to explore other	
looking at the input and output?	times tables by looking at	times tables by looking at patterns.	
What would happen, if I put it into	patterns. What can we use to help	What can we use to help us find	
reverse? Can we work the new	us find the 6 times table? How	the 6 times table? How about the	
results out as well?	about the 9s?	9s?	

Т	Mental/Oral LO (WBT):Main LO: UseWALT recall multiplication and division facts at speed.AASC: Are able to sequences invol	Main LO: Use place value to complete number sequences.				Plenary
		AA SC: Are able to complete number sequences involving decimals.	A SC: Can complete a range number sequences. Begin with decimals.	e of to work	BA SC: Can complete basic number sequences.	
		Vocabulary Place value, digits, hundreds, thousa DIFFERENCE, rule, term	nds, ten thousands, tens, o	ones, position	n, hundred thousands, millions,	
	ActivityTeach - All - TeacherPlay quick game to practise multiplication and division facts.Use counting stick to start lo numbers going up or down acc Can children identify the path -10, etc.) Have a look at different sequ identify the mystery numbers numbers in the sequence.) Establish that the correct ru value can help us with this.	Teach - All - Teacher Use counting stick to start looking at sequences and numbers going up or down according to a particular pattern. Can children identify the pattern? Start with easy ones (+1,		Practise/Apply - All - Pairs Complete LUM, p.6, Q1 together, finding the next three numbers in the sequence.		Display a sequence of square numbers as an example.
		-10, etc.) Have a look at different sequences of identify the mystery number? (DIFF numbers in the sequence.) Establish that the correct rule need value can help us with this.	on the board. Can they ERENCE between Is to be found. Place	Practise/Apply - Independent Practise/Apply: Higher- LUM, p. 6/7, Level 4+5 ONLY Middle- TM5, p.12, C:C Lower- TM5, p.12, C:B Special- TM5, p.12, C:A Extension: n/a		Can the children determine the rule? (Square numbers are special numbers, similar to triangular numbers, cube numbers, or the

	Focus Group: LB, ET, JR	Fibonacci
	Support children in finding the correct rule.	sequence.
	Complete tasks together and attempt to	
	challenge where possible. Begin working from	
	lowest level task (S) and try to work up to	
	second level (L), if confidence and	
	understanding increase.	

	Mental Oral LO (WBT):	Main LO: Add two-digit numbers mentally. Understand the language of addition.			
	WALT add numbers mentally.	AA SC: Are able to add any range of numbers, using jottings for support.	A SC: Are able to understand vocabulary associated with addition. Begin to find the su a range of numbers, including decimals.	BA SC: Are able to add one- and two- digit numbers mentally or with jottings for support. basic	
		Add, plus, sum, total, increase, grea thousands, tens, ones, position, hung	ter than, more than, place valu dred thousands, millions	e, digits, hundreds, thousands, ten	
W	Activity Use the soft football to practise adding whole numbers. Can they make up totals? Start to include different vocabulary.	Teach - Teacher Go through different ways of expressing "addition". Read pupils the number story and ask them to follow the directions. Can they come to the correct answer? Which different ways of expressing "adding" can they remember from the story? Add these words to their Maths cover sheet.	Focus 1 (Mango/ Melon/Peach): Work on adding decimals. Check understanding of how to set out the calculation. Recap place value. Focus 2: JP, BD, WH Reinforce how to add numbers. Check understanding of written calculation methods.	Practise/Apply Task: H- TM5, p.32, C:C M- TM5, p.32, C:B L- TM5, p.32, C:A S- 10 Ticks, L3P2, p.3 Extension: n/a	
	LSA Focus Group: SD, LB, ET, JR, OH Teach: Ask pupils to find missing numbers to make certain totals (number bonds to 10, 20, 100). Go throu an addition pyramid together to ensure children understand how to complete the tasks set. Practise/Apply: Pupils complete either the first level (S) or second level (L) task. (Check, who is happy and able to use column addition at this stage, by giving children individual questions				

	solve.)	

	Mental Oral LO (WBT):	Main LO: Use written methods for addition.			Plenary	
	WALT	AA SC: Are able to use column addition to add whole numbers and decimals.	A SC: Are able to use colum addition to add three- and digit numbers.	n d four-	BA SC: Are able to use an empty number line to add two- and three- digit numbers.	
		Vocabulary Addition, column, number line, decim position, hundred thousands, millions	al, place value, digits, hundi	reds, thou	sands, ten thousands, tens, ones,	
Th		Teach - Teacher Go through a miscalculated column a identify the mistake made? How can Take a look at basic column addition include numbers crossing columns. Cl their whiteboards to practise the m	ddition. Can pupils it be corrected? , before moving on to nildren should follow on ethod.	Practise H- TM6, M(2)- T/ M(1)- TM L- TM5, S- Serie Extensio Focus 1: Take a la work wit decimal Focus 2: LSA Work on method,	 /Apply Task: . p.23 M5, p.40, C:C M5, p.40, C:B p.40, C:A s F, ADDSUB, p.1 on: Series F, RUN, p. 15 Melon/Mango/Peach ook at using column addition for ch decimals. Stress importance of points being aligned. BA/A groups, less any ch. with securing understanding of column particularly secure layout. 	

LSA Focus Group: Children, who need column addition. <i>Teach:</i> Have a big number line in the hal pupils to jump along the number line to f <i>Practise/Apply:</i> Ask pupils to complete t	further input on number line strategy/lack understanding of I on the floor. Use whiteboards to represent different values. Ask find the correct answer. Series F, ADDSUB, p. 1 the remaining questions, using the number line for addition.
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	Mental Oral LO (WBT):	Main LO Use written methods for addition.			Plenary
	WALT	AA	A	BA	
		SC: Can solve problems involving	SC: Are able to use column	SC: Are able to use an empty	
		addition confidently, using	addition for whole numbers and	number line to add two- and three-	
		appropriate methods of recording.	begin to understand how to work	digit numbers.	
			with decimals.		
		Vocabulary			
		Place value, digits, hundreds, thousa	inds, ten thousands, tens, ones, positi	on, add, increase, sum, total	
F	Activity	Teach – Teacher			Allow pairs to
	On the board, ask children to	Introduce investigation to majority	of the class (target children to comp	lete addition challenge at that	explain how they
	find the missing totals to	point). Clarify any issues. Remind th	nem about expectations for presentat	ion of work. Work needs to be	have solved the
	make a target number.	recorded.			Addition problem.
					Consider
		Work with target group 1 on recap of	of column addition to resolve any remo	aining issues.	different
		Allow target group 2 (if needed) to	continue to practise how to use the n	umber line for addition.	approaches,
		Practise/Apply:			outcomes
		H/M- Complete "Adding Digits" inve	stigation, including Extension activity	for AA.	
		L- Abacus 5.1, p.61			
		S- Number line addition worksheet			
		Extension: see above			

Within in each Maths lesson there will be a Mental Oral starter linked to main teaching session if possible

During the main body of the lesson you must plan for each group to receive

- Teach teach the new skill / concept / method. To include modelling and shared example
- Practise the skill / concept / method independently (of the teacher) in the same context as it was modelled

• Apply - the new skill / concept / method in a different context. This is the problem solving element