

Progression of Key Concepts in Inspire Maths								
A	Addition and subtraction (making connections between the units) with reference to the pages in the Teacher's Guide							
Inspire Maths 1	Inspire Maths 2	Inspire Maths 3	Inspire Maths 4	Inspire Maths 5	Inspire Maths 6			
Key concepts: using concrete representations – cubes, balances. 'partwhole'. Addition within 10: TG1A Unit 3 p48 Key concepts: using concrete representations to support 'counting on' and 'part-whole' relating addition to number bonds. The + (plus) and = (equals) symbols are introduced here as one of the C-P-A representations within this unit. - Adding by counting on: Count on from the greater number. 6, 7, 8. 6+2=8 part part whole What is 2 more than 7? 7 8 9 2 added on to 7 is 9.	Addition and subtraction within 1000: TG2A Unit 2 p43 Key concepts: using place value charts with concrete representations. Using horizontal and column addition/subtraction. HTU ± U - no regrouping HTU ± TU - no regrouping HTU ± HTU - no regrouping HTU ± HTU - regrouping ones HTU ± HTU - regrouping tens HTU ± HTU - regrouping TU HTU - HTU - regrouping HT HTU - HTU - regrouping HT U - HTU - TU moving to HTU - HTU Using models: Addition and subtraction: TG2A Unit 3 p100 Key concepts: part-whole using models either with paper strips or by drawing bars. Length: TG2A Unit 8 p250 Key concepts: 'part-whole', 'adding on', 'taking away' and 'comparing' using models. - Addition and subtraction of length	Addition of numbers within 10 000: TG3A Unit 2 p38 Key concepts: addition with, then without, place value charts and concrete representations. Using column addition. - ThHTU + ThHTU - no regrouping + ThHTU + ThHTU - regrouping H - ThHTU + ThHTU - regrouping HTU Subtraction of numbers within 10 000: TG3A Unit 3 p63 Key concepts: using place value charts with concrete representations. Using column subtraction. - Meaning of difference - ThHTU + ThHTU - no regrouping ThH - ThHTU + ThHTU - regrouping ThH - ThHTU + ThHTU - regrouping ThHTU - Subtraction with numbers that have zeros - ThHTU - HTU Solving word problems 1: addition and subtraction: TG3A Unit 4 p94 Key concepts: 'part-whole', 'adding on', 'comparing', 'taking away' and using models.	Whole Numbers (3): Word problems (involving the four operations using a formal algorithm): TG4A Unit 3 p85 - Solve up to 3 step whole number word problems involving the four operations - Use model drawing and the unitary method to solve word problems - Use part-whole, comparison, adding on or taking away model drawings to solve word problems Decimals (2): TG4B Unit 10 p64 - ± involving tenths without regrouping - ± involving tenths and ones with regrouping tenths and ones - ± involving hundredths, tenths and ones with regrouping hundredths first, moving to regrouping hundredths, tenths and ones - Word problems up to 2 decimal places	Whole Numbers (2): TG5A Unit 2 p49 - Using a calculator, order of operations and Word problems - Application of concepts and skills of four operations	Algebra: TG6A Unit 1 p4 - Solve simple word problems involving algebraic expressions.			



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- Adding with number bonds:	Mass: TG2A Unit 9 p287	Mental calculations: TG3A Unit 9					
वरी सामि	Key concepts: 'part-whole', 'adding on', 'taking away' and 'comparing' using models.	p232 Key concepts: applying number bonds.					
How many penguins are there altogether? $3 + 5 = ?$	- Addition and subtraction of mass	Money: TG3B Unit 10 p4					
part 3 whole 8	Mental calculations: TG2B Unit 10 p4	Key concepts: Adding/subtracting money is similar to adding/subtracting whole numbers					
Subtraction within 10: TG1A Unit 4 p73	Key concepts: Number bonds involving tens and 'part-whole'.	Addition: - Add two amounts of money without					
Key concepts: using concrete representations to support 'taking away', 'counting on', 'counting back' and 'part-whole' relating to subtraction number	Money: TG2B Unit 11 p34 Key concepts: 'part-whole', 'adding	regrouping by first adding the pounds then the pence - Add two amounts of money where pence add up to £1 - Add two amounts of money using					
bonds. The – (minus) and = (equals) symbols are introduced here as one of the C-P-A representations within this unit.	on', 'taking away' and 'comparing' using models.	the following strategies: (1) decomposition (2) compensation					
- Subtracting by taking away:	- Word problems: Addition and subtraction of money	in which one amount is made into a whole number of pounds					
There are 9 spiders. Cross out 6 spiders. There are 3 spiders left.	Volume: TG2B Unit 14 p147	- Add two amounts of money using the standard method					
	Key concepts: 'part-whole', 'adding on', 'taking away' and 'comparing' using models.	Subtraction: - Subtract two amounts of money without regrouping by first subtracting the pounds then the pence					
	- Addition and subtraction of volumes	- Subtract two amounts money using the strategy of compensation, in which the amount subtracted is rounded up to the nearest pound - Subtract two amounts of money using the standard method					



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- Subtracting by counting on:	Key vocabulary	Solving word problems: Length, Mass and volume: TG3B Unit 12						
There are 9 flies. 6 flies are stuck in a web. How many flies are still flying?	- grouping: TG2A p135 - volume: TG2B p137	p67						
9 – 6 = ?	model: TG2A p100item: TG2A p108two-step word problem: TG2A	Key concepts: addition and subtraction one- and two-step problems						
Count on from the smaller number:	p113							
6. Stop at 9.		Time: TG3B Unit 15 p167						
q – 6 = ? / / \ Count on from the smaller number: 6. Stop at 9.		Addition: - Add time with no regrouping by adding the hours first then the						
6,7,8,9		minutes - Add time with regrouping by adding the minutes first then the hours						
3 steps		Subtraction: -Subtract time without regrouping by subtracting the hours first then the minutes						
- Subtracting by counting back:		- Subtract time with regrouping by first regrouping the hours and minutes, next subtracting the						
9 – 2 = ?		minutes, then subtracting the hours						
Start from the greater number, 9. Count back 2 steps.		Key vocabulary - sum: TG3A p25						
		- difference: TG3A p37						



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Stort from the greater number, q. Count back 2 steps. q - 2 = 7 - Subtracting with number bonds: There are 9 bean bags altogether. How many bean bags does Ruby have on her head? whole part whole part whole part whole part whole part whole part yhole q - 4 = 5 s part A family of number sentences can be written from a set of three related numbers: 1A Unit 4 p84 How many bolls of string are yellow? 7 - 2 = 5 How many bolls of string are blue? 7 - 5 = 2 How many bolls of string are there altogether? 2 + 5 = 7 or 5 + 2 = 7							



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Step 1							
16 + 3 = 19							



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- Subtracting by regrouping into tens and ones:							
Step I 17 – 3							
Step 2 Subtract 3 from 7. 7 - 3 = 4 Step 3 10 + 4 = 14							
17 – 3 = 14 Peter has 14 toy cars left.							
Numbers to 40: TG1B Unit 12 p59							
Key concepts: using concrete representations to support 'counting on', 'number bond' and 'part-whole'. The vertical addition and subtraction strategy is introduced here using a place value chart. - Simple addition and subtraction: - TU ± U - no regrouping - TU ± tens - no regrouping - TU ± TU - no regrouping - TU ± TU - regrouping - TU ± TU - regrouping - TU ± TU - regrouping ones							



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Adding three numbers 5 + 7 + 6 = ?							



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Numbers to 100: TG1B Unit 17 p190							
Key concepts: using concrete representations to support 'counting on', 'number bond', 'part-whole' and adding ones first followed by the tens. Using the vertical addition strategy with a place value chart.							
- Simple addition and subtraction: - TU ± U − no regrouping - TU ± tens − no regrouping - TU ± TU − no regrouping - TU ± U − regrouping - TU ± TU − regrouping - TU ± TU − regrouping ones							
Money (2): TG1B Unit 19 p252							
Key concepts: using concrete representations to support comparing, 'number bond' and 'part-whole'							
- Adding and subtracting in pence - Adding and subtracting in pounds							
<u>Key vocabulary</u>							
- count on: TG1A p10 - number bond: TG1A p32 - part: TG1A p32 - whole: TG1A p32 - add: TG1A p48 - plus: TG1A p48 - equals: TG1A p48 - addition sentence: TG1A p48 - group: TG1A p32 - total: TG1A p49 - most: TG1A p51							



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- rounds: TG1A p51 - addition story: TG1A p54 - word problem: TG1A p56 - regroup: TG1A p197 - subtract: TG1A p73 - minus: TG1A p73 - taking away: TG1A p73 - step: TG1A p75 - counting back: TG1A p77 - subtraction story: TG1A p80 - number sentence: TG1A p84									