Trend Task:		Maths Helpe
Approach:	One to one	Year: 4 & 8
Focus:	Demonstrating understanding of number operations	
Resources:	7 cards, packet of 25 wooden cubes	

Questions / instructions:		% response			% response 2005 ('01)	
Let's imagine that you have been chosen to be a maths helper in your classroom.		year 4	year 8	Show card 4. Note — cubes are not used for these questions.	year 4	year 8
I'll ask the questions, and you can try to explain how the maths works.You will need to say more than "yes" or "no" — to help				Place card with "8" on it in front of the student.		
others to understand. Use the cubes to help show what you mean.				YEAR 4 ONLY:		
Encourage the student to use the cubes and explain answers, rather than just saying yes, no or maybe.				 Is there a number you can add to 8, yet the 8 still stays the same? If you know, tell me what it is. 		
				gave 0 - number used in addition	53 (56)	•
Show cards 1a and 1b.				5. Is there a number you can take away		
	4+2 2+4			If you know, tell me what it is.		
1.	1. Is 4 plus 2 the same as 2 plus 4?		98 (98)	gave 0 – number used in subtraction	56 (55)	•
PROMPT: Can you explain that a bit more to me?		90 (99)		 Is there a number you can multiply (or times) 8 by, yet it still stays the same? If you know, tell me what it is. 		
Demonstration:				gave 1 – number used in multiplication	43 (45)	•
demonstrated using cubes no demonstration but valid argument		86 (80) 7 (5)	87 (87) 8 (9)	YEAR 8 ONLY:		
Show cards 2a and 2b.				 Is there a number you can add to, or take away from 8, yet the 8 still stays the same? If you know, tell me what it is. 		
	4-2 2-4			gave 0 – number used in addition or subtraction		73 (64)
 What about 4 minus 2 and 2 minus 4? Are they the same? Show me using the cubes. PROMPT: Can you explain that 		60 (63)	80 (82)	 What about multiplying or dividing? Is there a number you can multiply (or times) 8 by, or divide it by, so that the number stays the same? 		
a bit more to me?				If you know, tell me what it is.		
Demonstration:				gave 1 – number used in		71 (72)
demonstrated using cubes		39 (46)	63 (58)			74 (73)
no demonstration but valid argument		- (J)	- (J)			
Show cards 3a and 3b.						
	3 × 4 4 × 3			Total score: 10–12	22 (22)	35 (35)
3.	Does 3 times 4 give the same			8–9	25 (22)	33 (36)
	answer as 4 times 3?	97 (95)	06 (00)	6–7	27 (31)	20 (17)
	PROMPT' Can you explain that	07 (03)	90 (99)	4–5	18 (17)	9 (9)
	a bit more to me?			2–3	8 (7)	2 (2)
	Demonstration:			[Note: Maximum score of 11 for year 8] 0-1	1 (1)	0 (0)
	demonstrated by rearranging cubes and arguing no difference	16 (16)	30 (42)			
	demonstrated by making two seperate		04.(00)	Commentary:		
arrangements and counting		26 (26)	-34 (29)	Students demonstrated a basic understanding Performance from 2001 to 2005 was stable.	g of equiv	valency.