Name:		
Advanced Additive Part-Whole		Date achieved
I am learning to ...		I can ...
Knowledge		
• Read and order	Numbers to 1 000 000, for example, 1 374; 98 765; 763 104	
• Read	Decimals up to three places, for example, 0.764; 0.14; 0.8	
	Symbols for any fraction, for example, $1\frac{1}{3}$ $\frac{4}{5}$ $\frac{13}{3}$	
• Say	The number 1 000 more/1 000 less	
• Know	How many tens and hundreds are in four-digit numbers	
• Order	Fractions with the different denominators, for example, $\frac{1}{4}$ $\frac{2}{3}$ $\frac{4}{5}$	
• Know	Groups within 1 000, for example, 240 + 760	
• Know	How many twos, threes, fives, and tens in numbers to 100 and any remainders, for example, threes in 17	
• Round	Whole numbers to the nearest 10, 100, and 1 000, for example, 5 508 ⟶ 6 000	
	Decimals to the nearest whole number, for example, 3.49 ⟶ 3	
• Know	Basic facts for subtraction, for example, 16 – 9.	
• Know	Basic facts for multiplication, for example, 7 × 8.	
• Record	Results of calculations using empty number lines and written algorithms	
Strategy		
• Solve + and – problems by	Using compensation from tidy numbers 725 – 389 as 725 – 400 + 11 = 336 Using place value 376 + 431 as 300 + 400 + 70 + 30 + 6 + 1 = 807 Using compatible numbers 35 + 37 + 65 as (35 + 65) + 37 = 100 + 37 = 137 Using reversibility 814 – 789 = ☐ as 789 + ☐ = 814 Using equal additions 72 – 37 as 75 – 40 (add three to both numbers) Using decomposition 83 – 28 as renaming 83 so (70 + 13) – 28 = 55	
• Solve × and ÷ problems by	Using doubling, for example, 2 × 6 = 12 so 4 × 6 = 24 Deriving facts, for example, 2 × 6 = 12 so 3 × 6 = 12 + 6 = 18 Using reversibility, for example, 7 × 4 = 28 so 28 ÷ 4 = 7 Using proportional adjustment, for example, 3 × 12 is the same as, 6 × 6 = 36 (doubling and halving), or 24 ÷ 4 = 6 so 24 ÷ 8 = 3	
• Solve problems with fractions	Mentally, using known multiplication and division facts, for example, $\frac{1}{3}$ of 36 as, 3 x 12 = 36 so, $\frac{1}{3}$of 36 = 12 Finding answers to divisions that are fractions using multiplication facts and equal sharing, e.g., 5 ÷ 3 as $1 + \frac{1}{2} + \frac{1}{6}$ (repeated sharing).	