Vocabulary

Number	Addition & Subtraction	Multiplication & Division	Fractions Measurement		Geometry	Statistics
integer	altogether	multiply	equivalent standard/ metric unit		parallel/ perpendicular	represent
ones/ tens/ hundreds	tens boundary	dividing	numerator perimeter/ area		reflect/ translate	survey
tens/ hundreds/ thousands/ millions	hundreds boundary	factor	denominator millimetre/ centimetre/ kilometre/ yard/mile		two/three dimensional	most/least popular
sequence	left over	product	hundredths	nundredths centigrade		Carroll diagram
positive/ negative	inverse	remainder	decimal place	noon		Venn diagram
consecutive	equivalent	column/row	proportion	proportion width/ breadth		axis
above/ below zero	the same as	squared	equal parts of a whole	leap year/ millennium	obtuse/ acute/right angle	frequency
predict	difference	cubed	mixed number	Roman numerals	oblong/ rectilinear	data

Order for learning the times tables

- 👣 Step 1
- Fire just 1×6 , 2×6 , 5×6 , 10×6 at them first.

This will build up on their most secure existing table facts

👣 Step 2

Add in 3 \times 6, 4 \times 6 when step 1 is frequently recalled correctly and instantly

Step 3

Build up with 6×6 , 7×6 , 8×6

👣 Step 4

When looking at 9 \times 6, 11 \times 6 and 12 \times 6, children should look at finding 10 \times 6 and adjust

When they're ready, add in related division facts.

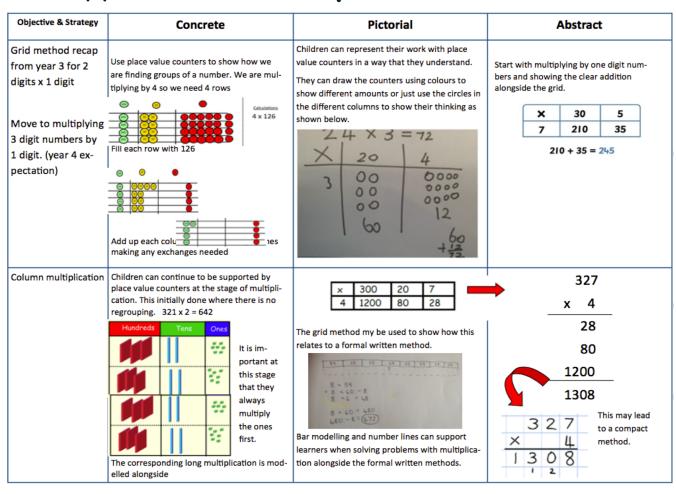
CPA approach to: Subtraction

Objective & Strategy	Concrete	Pictorial	Abstract 2 7 5 4 - 1 5 6 2 1 1 9 2 Use the phrase 'take and make' for exchange	
Subtracting tens and ones Year 4 subtract with up to 4 digits. Introduce decimal subtraction through context of money	234 - 179 O O O O O O O O O O O O O O O O O O O	Children to draw pv counters and show their exchange—see Y3		
Year 5- Subtract with at least 4 dig- its, including money and measures. Subtract with decimal values, including mixtures of integers and decimals and aligning the decimal	As Year 4	Children to draw pv counters and show their exchange—see Y3	"8" 1 '0 '8 '6 - 2 2 8 2 8,9 2 8 Use zeros for place- holders 3 7 2 · 5 6 7 9 6 · 5	
Year 6—Subtract with increasingly large and more complex numbers and decimal values.			**************************************	

CPA approach to: Addition

Objective &	Concrete			Pictorial				Abstract	
Strategy Y4—add numbers with up to 4 digits	a ten and ten tens for a hundred and ten			• • • • • • • • • • • • • • • • • • • •			::	3517	
	hundreds for	Tens	Ones	••	••	•		+ 396	
		111111		7	1	5	1	Continue from previous work to carry	
				Draw representations using pv grid.			rid.	hundreds as well as tens. Relate to money and measures.	
Y5—add numbers with more than 4 digits. Add decimals with 2 decimal places, including money.		s tenths		2.37 + 1 +ens 0 000000 0	ines	+ents	hundreaks 00000 00000	72.8 +54.6 127.4 1 1	
Y6—add several num- bers of increasing com- plexity	As Y5			As Y5				81,059 3,668 15,301 +20,551 120,579	
Including adding money, measure and decimals with different numbers of decimal points.								2 3 · 3 6 9 · 0 8 0 5 9 · 7 7 0 + 1 · 3 0 0 9 3 · 5 1 1	

CPA approach to: Multiplication



CPA approach to: Division

