Autumn Block 1

Place value

Small steps

Step 1	Roman numerals to 1,000
Step 2	Numbers to 10,000
Step 3	Numbers to 100,000
Step 4	Numbers to 1,000,000
Step 5	Read and write numbers to 1,000,000
Step 6	Powers of 10
Step 7	10/100/1,000/10,000/100,000 more or less
Step 8	Partition numbers to 1,000,000

Small steps

Step 9 Number line to 1,000,000

Step 10 Compare and order numbers to 100,000

Step 11 Compare and order numbers to 1,000,000

Step 12 Round to the nearest 10, 100 or 1,000

Step 13 Round within 100,000

Step 14 Round within 1,000,000

Autumn Block 2

Addition and subtraction

Small steps

Step 1 Mental strategies

Step 2 Add whole numbers with more than four digits

Step 3 Subtract whole numbers with more than four digits

Step 4 Round to check answers

Step 5 Inverse operations (addition and subtraction)

Step 6 Multi-step addition and subtraction problems

Step 7 Compare calculations

Step 8 Find missing numbers

Autumn Block 3

Multiplication and division A

Small steps

Step 1 Multiples

Step 2 Common multiples

Step 3 Factors

Step 4 Common factors

Step 5 Prime numbers

Step 6 Square numbers

Step 7 Cube numbers

Step 8 Multiply by 10, 100 and 1,000

Small steps

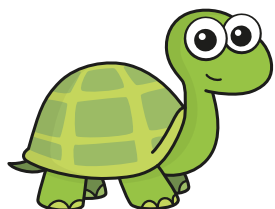| Step 9	Divide by 10, 100 and 1,000

Step 10	Multiples of 10, 100 and 1,000

Multiples of 10, 100 and 1,000

Reasoning and problem solving

Tiny is working out 600 ÷ 25

Here are Tiny's workings.

> 600 ÷ 25
>
> 600 ÷ 2 = 300
>
> 300 ÷ 5 = 60
>
> 600 ÷ 25 = 60

Explain why Tiny is incorrect.

Find the correct answer.

24

Whitney is using the fact that
6 × 7 = 42 to work out 420 ÷ 70

> The answer is 60, because all the numbers are 10 times greater.

Do you agree with Whitney?

Explain your answer.

No

Which is the correct way to work out 800 ÷ 25?

A	B
800 ÷ 100 = 8 8 ÷ 4 = 2	800 ÷ 100 = 8 8 × 4 = 32

Explain your answer.

B

Autumn Block 4

Fractions A

Small steps

Step 1	Find fractions equivalent to a unit fraction
Step 2	Find fractions equivalent to a non-unit fraction
Step 3	Recognise equivalent fractions
Step 4	Convert improper fractions to mixed numbers
Step 5	Convert mixed numbers to improper fractions
Step 6	Compare fractions less than 1
Step 7	Order fractions less than 1
Step 8	Compare and order fractions greater than 1

Small steps

Step 9	Add and subtract fractions with the same denominator
Step 10	Add fractions within 1
Step 11	Add fractions with total greater than 1
Step 12	Add to a mixed number
Step 13	Add two mixed numbers
Step 14	Subtract fractions
Step 15	Subtract from a mixed number
Step 16	Subtract from a mixed number – breaking the whole