Multiplication and division progression map 2024

Reception

Sharing & grouping

- Explore sharing
- Sharing
- Explore grouping
- Grouping
- Even and odd sharing
- Play with and build doubles

Year 1

- Count in 2s
- Count in 10s
- Count in 5s
- Recognise equal groups
- Add equal groups
- Make arrays
- Make doubles
- Make equal groups – grouping
- Make equal groups – sharing

Year 2

- Recognise equal groups
- Make equal groups
- Add equal groups
- Introduce the multiplication symbol
- Multiplication sentences
- Use arrays
- Make equal groups – grouping
- Make equal groups – sharing
- The 2 times-table
- Divide by 2
- Doubling and halving
- Odd and even numbers
- The 10 times-table
- Divide by 10
- The 5 times-table
- Divide by 5
- The 5 and 10 times-tables

Year 3

- Multiplication – equal groups
- Use arrays
- Multiples of 2
- Multiples of 5 and 10
- Sharing and grouping
- Multiply by 3
- Divide by 3
- The 3 times-table
- Multiply by 4
- Divide by 4
- The 4 times-table
- Multiply by 8
- Divide by 8
- The 8 times-table
- The 2, 4 and 8 times-tables
- Multiples of 10
- Related calculations
- Reasoning about multiplication
- Multiply a 2-digit number by a 1-digit number – no exchange
- Multiply a 2-digit number by a 1-digit number – with exchange
- Link multiplication and division
- Divide a 2-digit number by a 1-digit number – no exchange
- Divide a 2-digit number by a 1-digit number – flexible partitioning
- Divide a 2-digit number by a 1-digit number – with remainders
- Scaling
- How many ways?

Year 4

- Multiples of 3
- Multiply and divide by 6
- 6 times-table and division facts
- Multiply and divide by 9
- 9 times-table and division facts
- The 3, 6 and 9 times-tables
- Multiply and divide by 7
- 7 times-table and division facts
- 11 times-table and division facts
- 12 times-table and division facts
- Multiply by 1 and 0
- Divide a number by 1 and itself
- Multiply three numbers
- Factor pairs
- Use factor pairs
- Multiply by 10
- Multiply by 100
- Divide by 10
- Divide by 100
- Related facts – multiplication and division
- Informal written methods for multiplication
- Multiply a 2-digit number by a 1-digit number
- Multiply a 3-digit number by a 1-digit number
- Divide a 2-digit number by a 1-digit number (1)
- Divide a 2-digit number by a 1-digit number (2)
- Divide a 3-digit number by a 1-digit number
- Correspondence problems
- Efficient multiplication

Year 5

- Multiples
- Common multiples
- Factors
- Common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply by 10, 100 and 1,000
- Divide by 10, 100 and 1,000
- Multiples of 10, 100 and 1,000
- Multiply up to a 4-digit number by a 1-digit number
- Multiply a 2-digit number by a 2-digit number (area model)
- Multiply a 2-digit number by a 2-digit number
- Multiply a 3-digit number by a 2-digit number
- Multiply a 4-digit number by a 2-digit number
- Solve problems with multiplication
- Short division
- Divide a 4-digit number by a 1-digit number
- Divide with remainders
- Efficient division
- Solve problems with multiplication and division

Year 6

Add and subtract integers	Short division	Reason from known facts
Common factors	Division using factors	
Common multiples	Introduction to long division	
Rules of divisibility	Long division with remainders	
Primes to 100	Solve problems with division	
Square and cube numbers	Solve multi-step problems	
Multiply up to a 4-digit number by a 2-digit number	Order of operations	
Solve problems with multiplication	Mental calculations and estimation	