MATHS

Progression of place value

A mastery-based curriculum to build competency through the CPA approach. Concrete - Pictorial - Abstract

RECEPTION

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Pupils will develop an understanding of zero, number sense (one-one correspondence, cardinality, ordinality and conservation of number, and subitising). They will identify and represent numbers to 10 (progressing to 20).

YEAR 1

1

Pupils will read and write numbers in numerals: 0-100 and words: 0-20. They will identify and represent numbers 0-20 (progressing to 100). Count to and across, forwards and backwards, count in twos, fives, and ten: 0-100.

YEAR 2

2

Pupils will read and write in numerals and words; recognise the place value of each digit: 0-100 (progressing to 1000). They will identify, represent and estimate numbers whilst developing their fluency when counting in twos, threes, fives and tens within 100. Pupils will compare and order numbers within 100.

YEAR 3

3

Pupils will read and write in numerals and words; recognise the place value of each digit: 0-100. They will identify, represent, estimate, order, and compare numbers using different representations: 0-1000. Pupils will count in twos, threes, fives and tens; forward and backward within 100.

YEAR 4

4

Pupils will recognise the place value of each digit: 0-10,000. They will identify, represent, estimate, compare, and order numbers using different representations: 0-10,000. Pupils will count in multiples of 6, 7, 9, 25 and 1000 as well as backwards through zero, and find 1000 more or less than an given number. They will round any number to the nearest 10, 100 or 1000.

YEAR 5

5

Pupils will write, order and compare numbers whilst recognising the place value of each digit: 0-1,000,000 and beyond. They will be able to count forwards and backwards in steps of powers of 10, interpret negative numbers, and count with positive and negative whole numbers. Pupils will round any number to the nearest 10,100, 1,000, 10,000, and 100,000.

YEAR 6

6

Pupils will read, write, order and compare numbers up to 10,000,000 whilst recognising the value of each digit. They will use negative numbers in context, and calculate intervals across zero. Pupils will round any whole number to a required degree of accuracy and solve a range of practical problems involving all of the above.

Paddox

ArkCurriculum+

The Ark Mastery Curriculum is designed to be
Knowledge-rich + Academically ambitious + Logically sequenced
Designed to support memory + Diverse and Inclusive