



Deepdale Community Primary School

Autumn term: Maths Year 6

Termly Number Non-negotiables

Within teaching, there will be regular reasoning opportunities for children, allowing them to develop their skills in explaining and justifying their thinking.

Place value

The great majority of children will be able to:

Identify the value of any digit in numbers up to 10,000,000

Compare and order numbers up to 10,000,000

Round any number to a required degree of accuracy

Have instant recall when multiplying and dividing numbers by 10, 100 and 100 giving answers up to 3 decimal places e.g. 894×1000 $4528 \div 100$

Use negative numbers in context and calculate intervals across zero

Solve number that involve all of the above

Number: Addition and Subtraction

The great majority of children will be able to:

Add and subtract mentally by partitioning multiples of 1000s, 100s and 10's

Partition to add and subtract decimals e.g. $8.4 + 3.8$; $13.2 - 4.5$

Use number bonds and related facts to add and subtract decimals e.g. $2.8 + 0.43$ using knowledge of $280 + 43$; $8.3 - 0.52$ using knowledge of $830 - 52$

Recall and use addition and subtraction facts for 1 with decimals to 2 decimal places
e.g. $0.95 + ? = 1$ $0.09 + ? = 1$ $? + 0.4 = 1$ $1 = 0.05 + ?$ $0.23 + ? = 1$

Add and subtract numbers that contain different numbers of digits using the column method

Solve multi-step problems deciding which operations to use and why

Multiplication and Division

The great majority of children will be able to:

Multiply numbers up to 4-digits by a 2-digit number using the formal written method of long multiplication

Divide numbers up to 4-digits by a 1-digit number using the formal written method of short division

Divide numbers up to 4-digits by a 2-digit number using the formal written method of long division

Identify common factors, common multiples and prime factors.

Use related facts to multiply and divide e.g. 8000×4 ; 3000×80 ; $56\ 000 \div 8$; $96\ 000 \div 800$

Use their knowledge of the order of operations to carry out calculations (BIDMAS)

Solve multi-step problems deciding which operations to use and why

Fractions

The great majority of children will be able to:

Simplify fractions using common factors

Compare and order fractions

Add and subtract fractions with different denominators and mixed numbers

Multiply simple pairs of proper fractions and write the answer in the simplest form e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

Divide proper fractions by whole numbers e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$

Find fractions of an amount

Solve problems involving all of the above

