

Mathematics Scheme of work Year 4 Autumn Term



National Curriculum Objectives

Weeks 1- 4 Number and Place

Value

Count in multiples of 6, 7, 9, 25 and 1,000.

Find 1,000 more or less than a given number.

Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones).

Order and compare numbers beyond 1,000.

Identify, represent and estimate numbers using different representations.

Read Roman numerals to 100 (I to C) and know overtime the number system changed to include zero.

Round any number to nearest 10, 100 or 1000

Solve number and practical problems that involve all of the above and with increasingly large numbers.

Weeks 5 - 7 Number Addition and Subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why

Week 8 Measurement - Area

Find the area of rectilinear shapes by counting squares.

Week 9 - 12 Number Multiplication and Division

Recall and use multiplication and division facts for multiplication tables up to 12 x 12.

Count in multiples of 6, 7, 9, 25 and 1000

Recognise and use factor pairs and commutativity in mental calculations.

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Some of the Vocabulary used:

Place value, partition, thousands, tens, hundreds, ones, place holder, digit, four-digit number, Multiples, counting forwards, ordering numbers, greater than, less than.

Reasoning, problem solving.

Problem, solution, calculate, calculation, operation, inverse, answer, method, explain, reasoning, pattern, predict, estimate, approximate, add, subtract, multiply, divide, group, sum, total, difference, plus, minus, double, halve, multiple, product

Measure, area

Arrays, Conjectures, multiplication, factors, division, fluency, inverse, products, estimate, distributive law, formal, scaling, bar model.

Examples of Tasks/activities informed by National Curriculum:

1. Practising reading large numbers and reading numbers in different forms.
2. Use < and > to compare numbers
3. Read a number line
4. Rapid recall of times tables facts.
5. Using the RUCSAC method to solve word and real life problems.
6. Find the perimeter of squares.
7. Convert between different units of measure.
8. Use bar modelling to solve word problems
9. Mixed pairs and group work activities.
10. Independent or supported work in books to practise new skills.

Examples of Selected Resources Used:

White Rose Maths
Secret classroom
IR teaching tools
Smart notebook
Whiteboards and pens
BBC Super movers

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