

Year 6 Mathematics – Place Value: Detailed Scheme of Work (UK National Curriculum)

30 lessons covering Number and Place Value for Year 6.

Lesson	Week	Learning Objective (LO)	Lesson Coverage / Key Focus
1	Week 1	To recognise and describe the value of each digit in numbers up to 10,000,000	Identify place and value of digits; zero as a placeholder; place value charts.
2	Week 1	To partition numbers up to 10,000,000 in different ways using place value	Partition into millions, thousands and ones; expanded and flexible partitioning.
3	Week 1	To read and write numbers up to 10,000,000 in digits and words accurately	Read and write large numbers; correct use of commas and word form.
4	Week 1	To represent numbers up to 10,000,000 on a place value chart and number line	Plot numbers on number lines with different scales; intervals and benchmarks.
5	Week 1	To explain and justify place value reasoning using mathematical vocabulary	Explain digit value and comparisons clearly using reasoning.
6	Week 2	To compare numbers up to 10,000,000 using $<$, $>$ and $=$	Compare numbers by checking highest place value; justify decisions.
7	Week 2	To order a set of	Order numbers

		numbers up to 10,000,000 and explain the strategy used	ascending and descending; explain strategy.
8	Week 2	To use place value to find powers of 10 more or less	Add and subtract powers of ten; regroup when required.
9	Week 2	To solve problems that require comparing and ordering large numbers	Apply ordering and comparison skills in word problems.
10	Week 2	To use estimation to check the reasonableness of answers	Estimate using rounding and judge reasonableness.
11	Week 3	To round numbers to the nearest 10, 100 and 1,000	Round numbers using number lines and rules.
12	Week 3	To round numbers to the nearest 10,000 and 100,000	Apply rounding to larger place values.
13	Week 3	To round numbers to the nearest 1,000,000	Round multi-million numbers and explain decisions.
14	Week 3	To use rounding to estimate multi-step calculations	Estimate totals and differences efficiently.
15	Week 3	To solve real-life problems involving rounding	Apply rounding in context.
16	Week 4	To understand negative numbers and locate them on a number line	Identify and position negative numbers.
17	Week 4	To compare and order negative numbers	Order and compare negative and positive

			numbers.
18	Week 4	To calculate intervals across zero	Find differences across zero on a number line.
19	Week 4	To solve problems involving negative numbers	Apply negative numbers in context.
20	Week 4	To reason about negative numbers	Explain solutions involving negatives.
21	Week 5	To solve missing-number problems using place value	Find missing values using place value reasoning.
22	Week 5	To check answers using inverse reasoning	Use inverse operations to check accuracy.
23	Week 5	To solve multi-step problems involving large numbers	Combine place value skills in one problem.
24	Week 5	To choose efficient strategies for large numbers	Select and justify strategies.
25	Week 5	To explain answers using structured reasoning	Write clear mathematical explanations.
26	Week 6	To consolidate place value skills	Mixed fluency practice.
27	Week 6	To apply place value in reasoning problems	Solve reasoning tasks.
28	Week 6	To apply place value in multi-step problem solving	Solve complex problems.
29	Week 6	To complete an end-of-unit assessment	Assess understanding and skills.
30	Week 6	To address misconceptions	Reteach and extend learning.

		and complete a mastery challenge	
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