Learning Steps
Prior learning check & remediation/deepening of prior
Composition of 10,000
Composition of 100,000
Composition of 1,000,000
Position numbers to 10,000 on a number line
Position numbers to 100,000 on a number line
Position numbers to 1,000,000 on a number line
Count forwards and backwards in powers of ten to 1,000,000
Represent numbers to 10,000,000
Partition numbers to 10,000,000
Value of digits to 10,000,000
Number lines to 10,000,000
Compare numbers to 10,000,000 (same PV)
Compare numbers to 10,000,000 (different PV)
Order numbers to 10,000,000
PS Lesson: PV to 1,000,000 (all possibilities)
round any 4-digit number to the nearest 10, 100,1000
round up to seven-digit numbers to any power of 10
PS Lesson: rounding (multi-domain)
Written column addition to 10,000,000
Written column subtraction to 10,000,000
PS Lesson: column addition & subtraction (multi-step)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: trial & improvement

Learning Steps
Prior learning check & remediation/deepening of prior
Missing number equations
Balancing equations
Column addition– missing digits
Column subtraction – missing digits
Most efficient method
Order of Operations – no brackets or orders
Order of Operations – brackets & orders
Assessment
Pause & Stretch: re-assessment & deepening as required

Learning Steps
Prior learning check & remediation/deepening of prior
Moving digits multiplication including decimals
Convert large metric units to small
Convert large metric units to small
PS Lesson: converting units large to small (multi-step / visual)
Short multiplication refresh including decimals
Long multiplication with no regroup
Long multiplication with one regroup
Long multiplication with two regroup
Long multiplication with multiple regroup
Long multiplication Practice Lesson
PS Lesson: long multiplication (all possibilities)
Distributing for multiplying by a 2-digit number
Double and half to multiply without long multiplication
Factorisation to remove long multiplication
Most efficient method for multiplications
PS Lesson: multiplication (working backwards)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: working collaboratively

Learning Steps
Prior learning check & remediation/deepening of prior
Moving digits division including decimals
Convert small metric units to large
Short division: decimal dividends
Short division: decimal quotients (expressing remainders as decimals)
Short Division Practice Lesson (varied fluency and think)
PS Lesson: short division (word problems)
Building multiple strings (fact bank)
Long division – no remainder – divisor smaller than first 2 digits of dividend
Long division – no remainder – divisor larger than first 2 digits of dividend
Long division – remainders
Long division – remainders
Long division practice lesson (VF/RPS)
PS Lesson: long division (word problems)
Most efficient method for division
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: working systematically

Learning Steps
Prior learning check & remediation/deepening of prior
Simplifying Fractions – Basic Fluency
Simplifying Fractions – Practice (VF/Think)
Compare related fractions
Add related fractions not bridging the whole
Add mixed numbers with related fractions not bridging the whole
Add related fractions bridging the whole
Add mixed numbers with related fractions bridging the whole
Practice lesson adding related fractions – VF, Think, GDS
Subtract related fractions not bridging whole
Subtract mixed numbers with related fractions not bridging the whole
Subtract related fractions bridging whole
Subtract mixed numbers with related fractions bridging the whole
Practice lesson subtracting related fractions – VF, Think, GDS
Compare unrelated fractions
Add unrelated fractions not bridging the whole
Add mixed numbers with unrelated fractions not bridging the whole
Add unrelated fractions bridging the whole
Add mixed numbers with unrelated fractions bridging the whole
Practice lesson adding unrelated fractions – VF, Think, GDS
Subtract unrelated fractions not bridging whole
Subtract mixed numbers with unrelated fractions not bridging the whole
Subtract unrelated fractions bridging whole
Subtract mixed numbers with unrelated fractions bridging the whole
Practice lesson subtracting unrelated fractions – VF, Think, GDS
PS Lesson: adding and subtracting fractions (multi-step / multi-domain)
Calculating with fractions -mixed practice
What is percentage?
FDP equivalence
FDP equivalence – VF, Think, GDS
Percentages of amounts multiples of 25%, 50%, 75%
Percentages of amounts 10%
Percentages of amounts multiples of 10%
Percentages of amounts 5%
Percentages of amounts multiples of 5%
Percentages of amounts 1%
Finding percentages of amounts – multiples of 1%
Percentages of amounts – VF, Think, GDS
Most efficient method for percentages
Finding the whole from given percentage/fraction parts
Percentages & pie charts
PS Lesson: percentages (real-life word)
Fractions and percentages as operators
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: finding starting points

Y6 Learning Sequences
Proportional Reasoning

Learning Steps
Prior learning check & remediation/deepening of prior
Ratio tables
Language of ratio – scaling up
Language of ratio – simplest form
Real-life ratio problems
Recipes
Scale drawings
Scale factors
Miles & Kilometres
Correspondence problems
Assessment
Pause & Stretch: re-assessment & deepening as required

Learning Steps
Prior learning check & remediation/deepening of prior
1-step function machines
2-step function machines (output)
2-step function machines (input)
Missing Number Equations
Balancing Number Equations
Sequences
Form expressions
Algebraic expressions
Solve 1-step equations
Solve 2-step equations
Pairs of values
Assessment
Pause & Stretch: re-assessment & deepening as required

Learning Steps
Prior learning check & remediation/deepening of prior
Dual bar charts
Line Charts
Pie Charts
The relationships between the mean and sharing equally
Calculate the mean
Explain how the mean changes when the total quantity or number of values changes
Explain how to calculate the mean when one of the values in the data set is zero or missing
Explain how to use the mean to make comparisons between two sets of information
Explain when the mean is not an appropriate representation of a set of data
Assessment
Pause & Stretch: re-assessment & deepening as required

Learning Steps
Seven segments – calculator displays
All the sevens – calculating with a calculator
7-digit numbers – calculating with a calculator
What is one seventh – fractions with a calculator
7 is an amazing number – problem solving with a calculator
PS Skills Lesson: conjecture & generalising

Y6 Learning Sequences
Y7 Bridging Units

Children, who did not secure understanding in these core concepts of the primary curriculum, should complete intervention and revisits of earlier content; children who did secure understanding should complete these consolidation/bridging activities.

Learning Steps

Place Value
- Understand place value in integers
- Understand place value in decimals
- Understand place value in the context of measure
- Compare & order numbers and measures

Properties of Number
- Understand multiples
- Understand integer exponents & roots
- Understand the unique prime factorisation of a number

Arithmetic Procedures
- Additive structures for negative numbers
- Additive structures for decimals
- Multiplicative structures for positive and negative integers
- Multiplication with decimals
- Division with decimals
- Priority of operations
- Associative, distributive and commutative laws

Arithmetic Procedures with Fractions
- Representing fractions as numbers
- Comparing & ordering fractions
- Additive structures for fractions
- Multiplicative structures for fractions