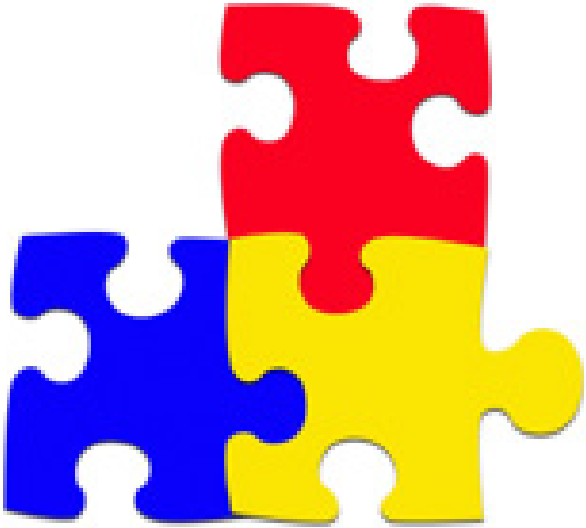




LEARNING LADDERS

MATHS

ST WINEFRIDE'S CATHOLIC
PRIMARY SCHOOL



NAME

CLASS

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EYFS MATHS

They explore characteristics of everyday objects and shapes and use mathematical language to describe them.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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They can describe patterns.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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Children can recognise and create patterns.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects to solve problems.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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They solve problems, including doubling, halving and sharing.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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Using quantities and objects, they subtract two single digit numbers and count back to find the answer.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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Using quantities and objects, they add two single digit numbers and count on to find the answer.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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Children say which number is one more or one less than a given number.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

Children place numbers from 1-20 in order.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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Children count reliably with numbers 1-20.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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MATHS LADDER

PLACE VALUE

I can count in tens from any number including crossing boundaries into hundreds.

Rung 10 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can compare and order numbers from 0 up to 100 using $>$ $<$ and $=$ signs.

Rung 9 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can read and write numbers to at least 100 in numerals and in words spelling correctly.

Rung 8 COMPLETE COMPLETE COMPLETE

I can understand the value of each digit in a 2 digit number.

Rung 7 COMPLETE COMPLETE COMPLETE

I can identify one less from a given number.

Rung 6 COMPLETE COMPLETE COMPLETE

I can continue simple number sequences and shape patterns.

Rung 5 COMPLETE COMPLETE COMPLETE

I can identify odd and even numbers up to 20.

Rung 4 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can read and write numbers from 1-100 in numerals and words to 20.

Rung 3 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can count up to and across 100, forwards and backwards.

Rung 2 COMPLETE COMPLETE COMPLETE

I can identify one more from a given number.

Rung 1 COMPLETE COMPLETE COMPLETE

MATHS LADDER

PLACE VALUE

I can count backwards through zero to include negative numbers.

Rung 20 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can round any whole number to the nearest 10, 100 or 1000 and numbers with one decimal place to the nearest whole number.

Rung 19 COMPLETE COMPLETE COMPLETE

I can understand the value of each digit in a 4 digit number.

Rung 18 COMPLETE COMPLETE COMPLETE

I can compare and order numbers beyond 1000.

Rung 17 COMPLETE COMPLETE COMPLETE

I can say 1000 more or less than any given number.

Rung 16 COMPLETE COMPLETE COMPLETE

I can represent numbers in different ways e.g. words, numerals, base 10, etc.

Rung 15 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can read and write numbers up to 1000 in numerals and words.

Rung 14 COMPLETE COMPLETE COMPLETE

I can compare and order numbers up to 1000.

Rung 13 COMPLETE COMPLETE COMPLETE

BIG SIX OBJECTIVE: I can understand the value of each digit in a 3 digit number.

Rung 12 COMPLETE COMPLETE COMPLETE

I can count in tens and hundreds and can add or subtract 10 or 100 from any given number up to 1000.

Rung 11 COMPLETE COMPLETE COMPLETE

PLACE VALUE

I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.

Rung 28	COMPLETE	COMPLETE	COMPLETE	
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I can use negative numbers in context and calculate intervals across zero.

Rung 27	COMPLETE	COMPLETE	COMPLETE	
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I can round any whole number to a required degree of accuracy.

Rung 26	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I know the value of digits in a decimal and equivalent fractions to thousandths.

Rung 25	COMPLETE	COMPLETE	COMPLETE	
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I can interpret negative numbers in context.

Rung 24	COMPLETE	COMPLETE	COMPLETE	
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I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.

Rung 23	COMPLETE	COMPLETE	COMPLETE	
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I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.

Rung 22	COMPLETE	COMPLETE	COMPLETE	
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I can read write order and compare numbers to 1,000,000 (1 million) and determine the value of each digit.

Rung 21	COMPLETE	COMPLETE	COMPLETE	
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MATHS LADDER

ADDITION

I can estimate the answer to an addition calculation or use the inverse to check it is correct.

Rung 10

COMPLETE

COMPLETE

COMPLETE

I can add in tens and ones using an unstructured number line.

Rung 9

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can mentally add numbers to 100.

Rung 8

COMPLETE

COMPLETE

COMPLETE

I can partition 2 and 3 digit numbers and add vertically using base 10 or practical resources without crossing boundaries.

Rung 7

COMPLETE

COMPLETE

COMPLETE

I can partition a number to add using number bonds to 10 e.g. $8 + 7$ is $8 + 2 + 5$.

Rung 6

COMPLETE

COMPLETE

COMPLETE

I can add 10 or 100 to any number and can add in multiples of 10.

Rung 5

COMPLETE

COMPLETE

COMPLETE

I can add in tens and ones using a structured number line.

Rung 4

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I know my number bonds to 20.

Rung 3

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I know my addition facts to 20.

Rung 2

COMPLETE

COMPLETE

COMPLETE

I can add in ones using a structured number line.

Rung 1

COMPLETE

COMPLETE

COMPLETE

ADDITION

BIG SIX OBJECTIVE: I can add whole numbers with more than 4 digits mentally.

Rung 19	COMPLETE	COMPLETE	COMPLETE	
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I can add large numbers in different contexts using formal column addition.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
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I can use rounding to estimate and check answers to calculations.

Rung 17	COMPLETE	COMPLETE	COMPLETE	
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I can add a mix of whole numbers and decimals with different numbers of decimal places using column addition.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
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I can use inverse operations to check calculations.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
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I can add money with decimal places using formal column addition.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
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I can add 3 and 4 digit numbers using formal column addition.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can add 2 digit numbers and 3 digit numbers using column addition.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can add up to 3 digit numbers mentally.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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SUBTRACTION

I can partition a number and subtract using column subtraction without decomposing (2 and 3 digit numbers).

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can subtract numbers up to 3 digits mentally.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can use related facts to subtract multiples of 10 and 100 e.g. $6 - 4 = 2$ $60 - 40 = 20$.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can subtract more efficiently using a number line using jumps of multiples of 10 with numbers up to 3 digits.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can mentally subtract numbers to 100.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I know all the subtraction facts to 20.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can subtract in tens and ones using an unstructured number line.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can subtract in tens and ones using a structured number line.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can subtract in ones using a structured number line.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can subtract in ones using practical resources.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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SUBTRACTION

I can subtract a mix of whole numbers and decimals with different numbers of decimal places using column subtraction.

Rung 20	COMPLETE	COMPLETE	COMPLETE	
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I can use rounding to check answers to calculations.

Rung 19	COMPLETE	COMPLETE	COMPLETE	
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I can subtract large numbers using formal column subtraction.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can subtract whole numbers with more than 4 digits mentally.

Rung 17	COMPLETE	COMPLETE	COMPLETE	
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I can subtract 3 and 4 digit numbers using formal column subtraction.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
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I can use the inverse to check calculations.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
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I can subtract 3 digit numbers by partitioning and decomposing using column subtraction.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
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I can subtract money including decimals using a number line e.g. finding the change from £5.00.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
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I can subtract 2 and 3 digit numbers using column subtraction without decomposing.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
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I can estimate the answer to a subtraction calculation or use the inverse to check it is correct.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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MULTIPLICATION

I can multiply 3 numbers, combining them in different ways and using my knowledge of number facts to make this easier e.g. $2 \times 6 \times 5 = 10 \times 6$.

Rung 10

COMPLETE

COMPLETE

COMPLETE

I can use a formal vertical method to multiply TO and HTO by O.

Rung 9

COMPLETE

COMPLETE

COMPLETE

I can use an expanded vertical method to multiply money with 2 decimal places by O (a one digit number).

Rung 8

COMPLETE

COMPLETE

COMPLETE

I can use related facts to multiply multiples of 10 and 100 e.g. $2 \times 3 = 6$, $2 \times 30 = 60$, $2 \times 300 = 600$.

Rung 7

COMPLETE

COMPLETE

COMPLETE

I can partition a number into 10's and ones to multiply (distributive law).

Rung 6

COMPLETE

COMPLETE

COMPLETE

I can use related facts to multiply multiples of 10 e.g. $2 \times 3 = 6$ and $2 \times 30 = 60$.

Rung 5

COMPLETE

COMPLETE

COMPLETE

I can explore the effect of partitioning a number to multiply (distributive law) e.g. exploring 7×8 by splitting 7 into 2 and 5 then calculating 2×8 then 5×8 .

Rung 4

COMPLETE

COMPLETE

COMPLETE

I know that multiplication can be done in any order (commutative).

Rung 3

COMPLETE

COMPLETE

COMPLETE

I can multiply using concrete objects, pictorial representations arrays and repeated addition.

Rung 2

COMPLETE

COMPLETE

COMPLETE

I can multiply using concrete objects, pictorial representations and arrays with the support of the teacher.

Rung 1

COMPLETE

COMPLETE

COMPLETE

MULTIPLICATION

I can use long multiplication to multiply THTO or HTO x TO.

Rung 17

COMPLETE

COMPLETE

COMPLETE

I can use related facts to multiply multiples of 10 and 100 e.g. $2 \times 3 = 6$ and $200 \times 30 = 6000$.

Rung 16

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can multiply 1 digit numbers with up to 2 decimal places with any whole number.

Rung 15

COMPLETE

COMPLETE

COMPLETE

I can multiply TO x TO using long multiplication.

Rung 14

COMPLETE

COMPLETE

COMPLETE

I can multiply TO x TO using diagrams, arrays and grids.

Rung 13

COMPLETE

COMPLETE

COMPLETE

I can use related facts to multiply multiples of 10 and 100 e.g. $2 \times 3 = 6$ and $20 \times 30 = 600$.

Rung 12

COMPLETE

COMPLETE

COMPLETE

I can use a formal vertical method to multiply HTO, THHTO and whole numbers with up to 2 decimal places (e.g. money) by O.

Rung 11

COMPLETE

COMPLETE

COMPLETE

MATHS LADDER

DIVISION

I can begin to represent a remainder as a fraction or decimal.

Rung 10

COMPLETE

COMPLETE

COMPLETE

I can solve more complex problems involving division including with remainders and round the answer appropriately in context.

Rung 9

COMPLETE

COMPLETE

COMPLETE

I can divide 4 digit and 3 digit numbers by one digit using short division.

Rung 8

COMPLETE

COMPLETE

COMPLETE

I can divide 3 digit numbers using increasingly efficient written methods and using related multiplication facts.

Rung 7

COMPLETE

COMPLETE

COMPLETE

I can divide 2 digit numbers by increasingly efficient written methods and use related multiplication facts.

Rung 6

COMPLETE

COMPLETE

COMPLETE

I understand the effect of dividing by 1.

Rung 5

COMPLETE

COMPLETE

COMPLETE

I can divide 2 digit numbers by another number using the tables I know.

Rung 4

COMPLETE

COMPLETE

COMPLETE

I know that division of one number by another can not be done in any order.

Rung 3

COMPLETE

COMPLETE

COMPLETE

I can divide using concrete objects, pictorial representations and arrays and repeated subtraction.

Rung 2

COMPLETE

COMPLETE

COMPLETE

I can divide using concrete objects, pictorial representations and arrays with the support of the teacher.

Rung 1

COMPLETE

COMPLETE

COMPLETE

DIVISION

I can divide numbers up to 4 digits by a 2 digit whole number using long division.

Rung 12

COMPLETE

COMPLETE

COMPLETE

I can express a quotient as a fraction, decimal or rounded according to context.

Rung 11

COMPLETE

COMPLETE

COMPLETE

TIMES TABLES

BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 9 times tables.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can count in multiples of 7, 9, 25 and 1000 forwards and backwards to include some negative numbers.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 8 times table.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can count in multiples of 3, 4, 6, 8, 50 and 100 - 1000.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 6 times table.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 3 times table.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 4 times table.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVES: I can count in 3's from zero forwards and backwards.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can recall and use multiplication and division facts for 2, 5 and 10 times tables.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can count in 2's, 5's and 10's from zero forwards and backwards from any number up to 100.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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TIMES TABLES

I can recall quickly all the multiplication and division facts for tables up to 12×12 and can use them confidently in larger calculations.

Rung 13

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for the 7 times tables.

Rung 12

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can recall and use the multiplication and division facts for all tables up to 12×12 .

Rung 11

COMPLETE

COMPLETE

COMPLETE

DECIMALS

I can compare and order whole numbers and decimals with up to 2 decimal places.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can multiply or divide whole numbers and decimals to 1000 by 10 and 100.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can compare and order decimals with the same number of decimal places up to 2 decimal places.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can multiply and divide 1 or 2 digit numbers by 10 and 100 and show answers as decimals and fractions.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and write the decimal equivalent of tenths, hundredths and common fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$) in a variety of contexts e.g. money and measures.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can write the decimal equivalent of tenths and hundredths and recognise them in the context of money.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can recognise a hundredth as a whole divided into 100 equal parts and as 10 parts of a tenth.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can count in tenths and decimal tenths recognising them as numbers between whole numbers.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and write the decimal equivalent of a tenth using a place value board e.g. $\frac{1}{10} = 0.1$.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can count in tenths and understand a tenth as part of a whole divided into 10 equal parts.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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DECIMALS

When using a calculator to solve problems, I can round the answer appropriately in context.

Rung 19 COMPLETE COMPLETE COMPLETE

I can recognise what degree of accuracy is appropriate when rounding decimals.

Rung 18 COMPLETE COMPLETE COMPLETE

I can round answers with a specific degree of accuracy (where this has been specified).

Rung 17 COMPLETE COMPLETE COMPLETE

I can calculate more complex decimal equivalents such as $\frac{3}{8} = 0.375$ using my understanding of the equivalence between fractions and decimals.

Rung 16 COMPLETE COMPLETE COMPLETE

I can associate a fraction with division and calculate decimal equivalents of common fractions such as halves, quarters and fifths.

Rung 15 COMPLETE COMPLETE COMPLETE

I can multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.

Rung 14 COMPLETE COMPLETE COMPLETE

I can read, write, order and compare numbers that have a mixture of 1, 2 or 3 decimal places.

Rung 13 COMPLETE COMPLETE COMPLETE

I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.

Rung 12 COMPLETE COMPLETE COMPLETE

I can round decimals with 2 decimal places to the nearest whole number and to one decimal place.

Rung 11 COMPLETE COMPLETE COMPLETE

FRACTIONS

I can recognise fractions of shapes (unit and non-unit).

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can add and subtract fractions with the same denominator and recognise a whole as a fraction e.g. $2/5 + 1/5 = 3/5$.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and show using diagrams, simple equivalent fractions.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, find, name and write fractions $1/3, 1/4, 2/4$ of a set of objects or quantity.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, find, name and write fractions $1/3, 1/4, 2/4$ of a shape.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can count in halves and quarters up to 10 recognising that fractions are numbers between whole numbers.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, find, name and write fractions $1/3, 1/4, 2/4$ and $2/4$ of a length.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can recognise the equivalence of $2/4$ to $1/2$.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, find and name a quarter of an object, shape or quantity.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, find and name a half of an object, shape or quantity.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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FRACTIONS

BIG SIX OBJECTIVE: I can multiply proper fractions and mixed numbers by a whole number using diagrams and concrete apparatus.

Rung 20	COMPLETE	COMPLETE	COMPLETE	
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I can compare and order fractions where denominators are in the same fraction family.

Rung 19	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can add and subtract fractions with denominators in the same fraction family.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and work out unit fractions of shapes, lengths and sets of objects e.g. $\frac{1}{8}$ of a bar of chocolate made of 40 pieces.

Rung 17	COMPLETE	COMPLETE	COMPLETE	
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I can add and subtract fractions where the denominator is the same beyond a whole.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and show equivalent fractions in a family of fractions.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and work out non-unit fractions of shapes, lengths and sets of objects e.g. $\frac{3}{4}$ of a metre, or $\frac{2}{5}$ of a bar of chocolate made of 20 pieces.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
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I can compare and order unit fractions with the support of fraction boards and number lines.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can work out fractions of amounts for common fractions e.g. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ and $\frac{1}{5}$ of a set of objects.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
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I can compare and order fractions with the same denominator.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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FRACTIONS

I can recognise and explore the relationship between multiplying by a whole number and dividing by its reciprocal.

Rung 30	COMPLETE	COMPLETE	COMPLETE	
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I can multiply more complex pairs of proper fractions e.g. $\frac{3}{5} \times \frac{4}{7}$.

Rung 29	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can divide fractions by a whole number.

Rung 28	COMPLETE	COMPLETE	COMPLETE	
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I can multiply simple pairs of proper fractions and write the answer in its simplest form e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$.

Rung 27	COMPLETE	COMPLETE	COMPLETE	
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I can add and subtract fractions and mixed numbers with different denominators using the idea of equivalence.

Rung 26	COMPLETE	COMPLETE	COMPLETE	
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I can use common multiples to express fractions in the same denomination.

Rung 25	COMPLETE	COMPLETE	COMPLETE	
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I can compare and order any set of fractions, proper or improper, or mixed numbers including those with different denominators.

Rung 24	COMPLETE	COMPLETE	COMPLETE	
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I can simplify fractions using common factors.

Rung 23	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and convert improper fractions to mixed numbers.

Rung 22	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can add and subtract fractions with the same denominators including recognising and converting improper fractions to mixed numbers.

Rung 21	COMPLETE	COMPLETE	COMPLETE	
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PROBLEM SOLVING

I can solve money problems involving addition and finding the change (both £ and pence).

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can find change (£ or pence).

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can use place value and number facts to solve problems.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can solve simple word problems involving addition and subtraction with numbers up to 50.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve simple money problems involving addition.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve missing number problems for addition and subtraction with numbers up to 20.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve multiplication and division problems using pictures and diagrams.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can solve practical problems in the context of measure e.g. length, weight, capacity and time.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve addition and subtraction 1 step word problems using concrete apparatus.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve multiplication and division 1 step word problems using concrete apparatus (2, 5 and 10 times tables only).

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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PROBLEM SOLVING

I can solve more complex correspondence problems, choosing how to tackle and present the problem clearly (e.g. 'share 3 cakes equally between 10 children' or '3 starters, 3 mains, 3 desserts how many different meal options?')

Rung 20

COMPLETE

COMPLETE

COMPLETE

I can solve 2 step word problems involving all 4 operations, deciding which operations to use and when.

Rung 19

COMPLETE

COMPLETE

COMPLETE

I can estimate answers and use inverse operations to check answers to a calculation in the context of a problem.

Rung 18

COMPLETE

COMPLETE

COMPLETE

I can solve more complex scaling problems (e.g. 8 times as high).

Rung 17

COMPLETE

COMPLETE

COMPLETE

I can solve simple scaling problems (e.g. twice as long).

Rung 16

COMPLETE

COMPLETE

COMPLETE

I can estimate an answer to an addition or subtraction problem and use the inverse to check an answer.

Rung 15

COMPLETE

COMPLETE

COMPLETE

I can solve simple correspondence problems (e.g. 'share 4 cakes equally between 8 children' or '4 hats, 3 coats, how many different outfits?')

Rung 14

COMPLETE

COMPLETE

COMPLETE

I can solve 1 step word problems involving addition and subtraction (including numbers beyond 100).

Rung 13

COMPLETE

COMPLETE

COMPLETE

I can solve missing number problems for addition, subtraction, multiplication and division with numbers up to 100 using my knowledge of number facts and the relationship between operations.

Rung 12

COMPLETE

COMPLETE

COMPLETE

I can solve 1 step word problems involving multiplication and division.

Rung 11

COMPLETE

COMPLETE

COMPLETE

PROBLEM SOLVING

I can round and estimate as a means of predicting and checking the order of magnitude of my answers to a decimal calculation.

Rung 30

COMPLETE

COMPLETE

COMPLETE

I can solve addition and subtraction multi-step problems in context, with increasingly large numbers, deciding which operations to use and why.

Rung 29

COMPLETE

COMPLETE

COMPLETE

I can investigate a problem involving place value and properties of number, and present my investigation in a clear and organised way.

Rung 28

COMPLETE

COMPLETE

COMPLETE

I can use all 4 operations to solve equivalence statements (e.g. $5 \times ? = 18 + 12$).

Rung 27

COMPLETE

COMPLETE

COMPLETE

I can solve problems involving multiplication and division including scaling by simple fractions.

Rung 26

COMPLETE

COMPLETE

COMPLETE

I can solve multi step problems involving a combination of any of the 4 operations.

Rung 25

COMPLETE

COMPLETE

COMPLETE

I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Rung 24

COMPLETE

COMPLETE

COMPLETE

I can solve addition and subtraction multi-step problems in context, deciding which operations to use and why.

Rung 23

COMPLETE

COMPLETE

COMPLETE

I can solve missing number problems with increasingly large numbers using my knowledge of place value and relationships between operations.

Rung 22

COMPLETE

COMPLETE

COMPLETE

I can solve 2 step word problems involving addition and subtraction deciding which operations to use and when.

Rung 21

COMPLETE

COMPLETE

COMPLETE

PROBLEM SOLVING

I can solve real life and financial problems e.g. comparing holiday packages or working out household bills.

Rung 37

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can solve simple linear equations.

Rung 36

COMPLETE

COMPLETE

COMPLETE

I can solve a variety of number problems using formulae and algebraic equations.

Rung 35

COMPLETE

COMPLETE

COMPLETE

I can find pairs of numbers that satisfy an equation with two unknowns.

Rung 34

COMPLETE

COMPLETE

COMPLETE

I consistently check the reasonableness of my answer in all calculations.

Rung 33

COMPLETE

COMPLETE

COMPLETE

I can solve multi-step word problems and investigations involving all 4 operations from a large range of contexts.

Rung 32

COMPLETE

COMPLETE

COMPLETE

BIG SIX OBJECTIVE: I can express missing number problems algebraically.

Rung 31

COMPLETE

COMPLETE

COMPLETE

PROPERTIES OF NUMBER

I can identify multiples and factors including finding all factor pairs of a number and common factors of two numbers.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVES: I know prime numbers to 19 and whether any number to 100 is prime.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I can use square and cube numbers and corresponding symbols.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and describe linear number sequences including those involving fractions and decimals and find the term to term rule e.g. add half.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I know doubles and halves 1-100.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can recognise patterns across all the multiplication tables.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can use the = sign to write equality statements for addition, subtraction and multiplication.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can recognise factor pairs of a number and multiples of single digit numbers.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

BIG SIX OBJECTIVE: I know doubles and halves to 50.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

BIG SIX OBJECTIVE: I know doubles and halves of numbers to 20.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

PROPERTIES OF NUMBER

BIG SIX OBJECTIVE: I can expand and simplify brackets.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can identify square roots and cube roots which give integer solutions (whole number answers).

Rung 17	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can identify the region for solutions of square roots (not square numbers) and use this as a starting point for trial and improvement.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
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I can make generalisations about number patterns and express them algebraically.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can generate and describe linear number sequences.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

BIG SIX OBJECTIVE: I can identify common factors, common multiples and prime numbers, with increasingly large numbers.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

BIG SIX OBJECTIVE: I understand the order of operations using brackets.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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PERCENTAGE AND RATIO

I can link % to calculating simple angles in a pie chart (e.g. recognise that 50% is 180 degrees).

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can solve more complex % problems in context such as % deduction.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

BIG SIX OBJECTIVE: I can find fractions, decimals and percentages of any number.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can divide a quantity in a given ratio (recognising the proportion as a fraction of the whole).

Rung 7	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can identify that a problem can be written as a ratio and solve problems using this relationship.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve problems involving similar shapes where the scale factor is known or can be found.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can solve % problems in a variety of contexts such as comparing % (e.g. best buys).

Rung 4	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can recall and use equivalence between fractions, decimals and % to solve problems e.g. 10% of £5.00 or 50% of the team.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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BIG SIX OBJECTIVE: I know the relationship between fractions, decimals and percentages.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can recognise and understand % as part of 100 and write a % as a fraction and a decimal.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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PERCENTAGE AND RATIO

BIG SIX OBJECTIVE: To solve problems involving ratio and proportion.

Rung 11

COMPLETE

COMPLETE

COMPLETE

MEASURES

I can choose appropriate units of measure to estimate length, height, mass and capacity.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can recognise and use symbols for £ and p.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can measure using appropriate equipment e.g. ruler, weighing scales, measuring jug.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can combine amounts to make a particular value e.g. make 3p using a 2p and a 1p.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can compare and order measures and record using $<$ $>$ and $=$.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I recognise and know the value of different denominations of notes.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I recognise and know the value of different denominations of coins.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can compare, describe, measure and record capacity and volume.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can compare, describe, measure and record length and height.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can compare, describe, measure and record weight and mass.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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MEASURES

I can convert between units of measure using multiplication and division and where appropriate record with decimal notation.

Rung 20	COMPLETE	COMPLETE	COMPLETE	
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I can estimate, compare and calculate measures in a variety of contexts.

Rung 19	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can use both £ and p in context and recognise equivalence e.g. 306p = £3.06.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
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I can convert between units of measure with the support of measuring instruments and where appropriate record with decimal notation.

Rung 17	COMPLETE	COMPLETE	COMPLETE	
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I can solve problems involving measures including simple problems of scale e.g. twice as high.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can read measuring instruments with increasing accuracy.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can add and subtract amounts of money to give change, using both £ and p in practical contexts.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
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I can compare, add and subtract measures.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can read measures in mixed units and can convert simple whole units of measure e.g. 5m = 500cm.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can find different combinations of coins that equal the same amounts.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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MEASURES

I can understand compound units for speed and use them in context e.g. science experiments.

Rung 30

COMPLETE

COMPLETE

COMPLETE

I can convert between miles and km.

Rung 29

COMPLETE

COMPLETE

COMPLETE

I can recognise when it is possible to use formulae to calculate volume.

Rung 28

COMPLETE

COMPLETE

COMPLETE

I can calculate, estimate and compare the volume of cubes and cuboids using standard units e.g. cm^3 .

Rung 27

COMPLETE

COMPLETE

COMPLETE

I can solve problems involving the calculation and conversion of units of measure using decimal notation up to three decimal places.

Rung 26

COMPLETE

COMPLETE

COMPLETE

I can use, read, write and convert between standard units of measure using decimal notation up to 3 decimal places.

Rung 25

COMPLETE

COMPLETE

COMPLETE

I can estimate volume and capacity and explore these concepts using practical materials.

Rung 24

COMPLETE

COMPLETE

COMPLETE

I can use all 4 operations to solve problems involving length, mass, capacity and scaling.

Rung 23

COMPLETE

COMPLETE

COMPLETE

I can understand and use approximate equivalences between metric units and common imperial units (inches, pounds, pints).

Rung 22

COMPLETE

COMPLETE

COMPLETE

I can convert between different units of measure using my understanding of times and divide by 10, 100 and 1000.

Rung 21

COMPLETE

COMPLETE

COMPLETE

MEASURES

BIG SIX OBJECTIVE: I can solve problems involving the conversion of units of measurement.

Rung 31

COMPLETE

COMPLETE

COMPLETE

SHAPE

I can recognise right angles in 2D shapes and say if an angle is greater or less than a right angle.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can draw 2D shapes and describe them using my knowledge of sides and angles.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can recognise a 3D shape in different orientations.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can compare and sort common 2D and 3D shapes and everyday objects.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can identify 2D shapes on the surface of 3D shapes e.g. a circle on a cylinder.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can identify, describe and sort 3D shapes by talking about the number of faces, edges and vertices.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can identify, describe and sort 2D shapes by naming them, talking about the number of sides.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and name common 3D shapes (cuboid, cube, pyramid, sphere).

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can recognise and name common 2D shapes (rectangle, circle, square, triangle).

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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MATHS LADDER

SHAPE

I can calculate missing angles on a straight line (180 degrees), or at a point (360 degrees), or within a right angle (90 degrees).

Rung 20

COMPLETE

COMPLETE

COMPLETE

I can identify regular and irregular shapes using my knowledge of length of sides and angles.

Rung 19

COMPLETE

COMPLETE

COMPLETE

I can name, describe and sort a variety of quadrilaterals and triangles based on their properties.

Rung 18

COMPLETE

COMPLETE

COMPLETE

I can complete symmetrical shapes and patterns with respect to a specific line of symmetry.

Rung 17

COMPLETE

COMPLETE

COMPLETE

I can identify and name acute and obtuse angles.

Rung 16

COMPLETE

COMPLETE

COMPLETE

I can identify and compare acute, obtuse and reflex angles.

Rung 15

COMPLETE

COMPLETE

COMPLETE

I can identify lines of symmetry in 2D shapes presented in different orientations.

Rung 14

COMPLETE

COMPLETE

COMPLETE

I can make 3D shapes using modelling materials and name and describe their properties.

Rung 13

COMPLETE

COMPLETE

COMPLETE

I can compare and order angles.

Rung 12

COMPLETE

COMPLETE

COMPLETE

I can identify right angles and describe how right angles can make up $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and a whole turn.

Rung 11

COMPLETE

COMPLETE

COMPLETE

SHAPE

I can solve problems using my knowledge of circle properties.

Rung 29	COMPLETE	COMPLETE	COMPLETE	
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I can recognise vertically opposite angles and use this to calculate missing angles.

Rung 28	COMPLETE	COMPLETE	COMPLETE	
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I can illustrate and name parts of a circle including radius, diameter and circumference and know that diameter is twice the radius.

Rung 27	COMPLETE	COMPLETE	COMPLETE	
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I can compare and classify geometric shapes based on their size and properties and can find unknown angles in any triangle, quadrilateral or regular polygon.

Rung 26	COMPLETE	COMPLETE	COMPLETE	
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I can recognise, describe and build simple 3D shapes including making nets.

Rung 25	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can accurately draw 2D shapes using given angles and dimensions.

Rung 24	COMPLETE	COMPLETE	COMPLETE	
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I can find missing lengths and angles in rectangles using my knowledge of related facts.

Rung 23	COMPLETE	COMPLETE	COMPLETE	
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I can identify 3D shapes from 2D representations.

Rung 22	COMPLETE	COMPLETE	COMPLETE	
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I can draw and measure given angles in degrees.

Rung 21	COMPLETE	COMPLETE	COMPLETE	
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POSITION AND DIRECTION

I can identify, describe and draw the position of a shape on a grid after a translation.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can identify, describe and draw the position of a shape on a grid after a reflection on a line parallel to the axis.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can translate shapes on a grid and describe the movement using left/right, up/down.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can complete polygons by giving a missing co-ordinate on a grid.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can use co-ordinates to plot a shape on a grid (1st quarter).

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can describe positions on a 2D grid.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can distinguish between rotation as a turn and in terms of right angles for quarter, half and three quarter turns.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can use mathematical vocabulary to describe position, direction and movement including movement in a straight line.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can order and arrange combinations of mathematical objects in patterns and sequences.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can describe position, direction and movement including whole, $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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POSITION AND DIRECTION

I can express missing co-ordinates algebraically.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
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I can predict missing co-ordinates using the properties of shapes.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can reflect simple shapes in the axes.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can draw and translate simple shapes on a 4 quadrant grid.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
---------	----------	----------	----------	--

I can label the axes of a grid in all 4 quadrants and describe a position on the grid.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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PERIMETER AND AREA

I can investigate relationships between area and perimeter e.g. shapes with the same area can have different perimeters and vice versa.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can find unknown lengths on rectilinear shapes using my understanding of perimeter and area.

Rung 9	COMPLETE	COMPLETE	COMPLETE	
--------	----------	----------	----------	--

I can calculate and compare the area of rectangles using cm^2 ; and m^2 ; including from scale drawings.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can estimate the area of irregular shapes.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can measure and calculate the area of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm^2 ; and m^2 .

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can measure and calculate the perimeter of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm and m.

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can calculate the area of rectangles using multiplication.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can find the area of rectangles by counting squares.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can calculate the perimeter of rectangles including squares.

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can measure the perimeter of simple 2D shapes.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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PERIMETER AND AREA

I can calculate area and perimeter of compound shapes including parallelograms and triangles.

Rung 13

COMPLETE

COMPLETE

COMPLETE

I can recognise when it is possible to use formulae to calculate area.

Rung 12

COMPLETE

COMPLETE

COMPLETE

I can calculate the area of parallelograms and triangles.

Rung 11

COMPLETE

COMPLETE

COMPLETE

MATHS LADDER

TIME

I understand and use vocabulary such as o'clock, am, pm, noon and midnight.

Rung 10

COMPLETE

COMPLETE

COMPLETE

I can use the vocabulary of time and know the number of seconds in a minute, days in each month, year and leap year.

Rung 9

COMPLETE

COMPLETE

COMPLETE

I can tell and write the time to 5 minutes and draw the hands on a clock face to show these times.

Rung 8

COMPLETE

COMPLETE

COMPLETE

I can read and write the time on an analogue clock for quarter past and quarter to.

Rung 7

COMPLETE

COMPLETE

COMPLETE

I can compare and sequence intervals of time.

Rung 6

COMPLETE

COMPLETE

COMPLETE

I know how many hours there are in a day and how many minutes in an hour.

Rung 5

COMPLETE

COMPLETE

COMPLETE

I can read and write the time on an analogue clock for o'clock and half past.

Rung 4

COMPLETE

COMPLETE

COMPLETE

I can compare, describe, measure and record time (hours, minutes, seconds) and use the language quicker, slower, earlier, later.

Rung 3

COMPLETE

COMPLETE

COMPLETE

I can recognise and use language relating to dates including days of the week, months and the term 'year'.

Rung 2

COMPLETE

COMPLETE

COMPLETE

I can sequence events in chronological order using before, after, today, tomorrow etc.

Rung 1

COMPLETE

COMPLETE

COMPLETE

MATHS LADDER

TIME

I can solve problems involving time including reading simple timetables.

Rung 20 COMPLETE COMPLETE COMPLETE

I can solve problems which involve converting between units of time e.g. expressing the answer as days and weeks.

Rung 19 COMPLETE COMPLETE COMPLETE

I can convert hours to minutes, minutes to seconds, years to months or weeks to days.

Rung 18 COMPLETE COMPLETE COMPLETE

I can solve problems involving calculating lengths of time.

Rung 17 COMPLETE COMPLETE COMPLETE

I can read, write and convert time between analogue and digital 12 and 24 hour clocks.

Rung 16 COMPLETE COMPLETE COMPLETE

I can read the time on a 24 hour digital clock.

Rung 15 COMPLETE COMPLETE COMPLETE

I can read the time on a digital clock (12 hour) and compare to an analogue clock.

Rung 14 COMPLETE COMPLETE COMPLETE

I can calculate and compare time durations.

Rung 13 COMPLETE COMPLETE COMPLETE

I can read and write the time to the nearest minute on an analogue clock.

Rung 12 COMPLETE COMPLETE COMPLETE

I can record time in seconds, minutes and hours and can compare lengths of time (e.g. which is longer).

Rung 11 COMPLETE COMPLETE COMPLETE

STATISTICS

I can interpret data presented in a range of graphical representations with a greater range of scales.

Rung 10	COMPLETE	COMPLETE	COMPLETE	
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I can solve 2 step problems using the information presented in charts and graphs e.g. how many more/fewer?

Rung 9	COMPLETE	COMPLETE	COMPLETE	
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I can solve one step problems using the information presented in charts and graphs.

Rung 8	COMPLETE	COMPLETE	COMPLETE	
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I can present data in charts and graphs including using a scale of 2, 5 and 10.

Rung 7	COMPLETE	COMPLETE	COMPLETE	
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I can interpret data in charts and graphs including reading a scale of 2, 5 and 10.

Rung 6	COMPLETE	COMPLETE	COMPLETE	
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I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?

Rung 5	COMPLETE	COMPLETE	COMPLETE	
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I can interpret and construct simple pictograms and block diagrams.

Rung 4	COMPLETE	COMPLETE	COMPLETE	
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I can interpret and construct simple tally charts and tables.

Rung 3	COMPLETE	COMPLETE	COMPLETE	
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I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2).

Rung 2	COMPLETE	COMPLETE	COMPLETE	
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I can answer simple questions about quantities from looking at tally charts and simple tables.

Rung 1	COMPLETE	COMPLETE	COMPLETE	
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STATISTICS

I can solve problems using the data from line graphs (including conversion graphs) and pie charts including ones I have constructed myself.

Rung 20	COMPLETE	COMPLETE	COMPLETE	
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I can construct a pie chart.

Rung 19	COMPLETE	COMPLETE	COMPLETE	
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I can interpret a pie chart.

Rung 18	COMPLETE	COMPLETE	COMPLETE	
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I can decide which representations of data are most appropriate and explain why.

Rung 17	COMPLETE	COMPLETE	COMPLETE	
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I can complete, read and interpret information presented in tables and other graphical representations.

Rung 16	COMPLETE	COMPLETE	COMPLETE	
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I can solve comparison, sum and difference problems using information presented in line graphs.

Rung 15	COMPLETE	COMPLETE	COMPLETE	
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I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Rung 14	COMPLETE	COMPLETE	COMPLETE	
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I can present continuous data in the form of time (line) graphs recognising that it is recording a change over time.

Rung 13	COMPLETE	COMPLETE	COMPLETE	
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I can interpret continuous data in the form of time (line) graphs recognising that it is recording a change over time.

Rung 12	COMPLETE	COMPLETE	COMPLETE	
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I can present discrete data using appropriate graphical methods.

Rung 11	COMPLETE	COMPLETE	COMPLETE	
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STATISTICS

I can calculate the probability of an independent event.

Rung 24	COMPLETE	COMPLETE	COMPLETE
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BIG SIX OBJECTIVE: I can compare two sets of data using the range and one of the mode, median or mean.

Rung 23	COMPLETE	COMPLETE	COMPLETE
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I can read and interpret linear proportional graphs (e.g. speed).

Rung 22	COMPLETE	COMPLETE	COMPLETE
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I can calculate the mean as an average and understand when it is appropriate to find the mean of a set of data.

Rung 21	COMPLETE	COMPLETE	COMPLETE
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