

Year Four Inspire Objective Target Sheet

UNIT ONE: WHOLE NUMBERS (1)

1. Recognise that 10 thousands = 1 ten thousand and that 10 ten thousands = 1 hundred thousand
2. Translate 5-digit numbers from numerals to words and vice versa
3. State the value of each digit in a 5-digit number
4. Write a number as the sum of the values of each digit
5. Compare and order numbers to 100,000
6. State how much more or less one number is than another
7. Find the pattern in a number sequence

UNIT TWO: WHOLE NUMBERS (3)

8. Use a number line to round numbers to the nearest 10 and 100
9. Use the approximation symbol to show a number has been rounded
10. Make a list of whole numbers that can round to a number
11. Use rounding to estimate answers and check the reasonableness of answers
12. State that if $a \div b = c$, then b is a factor of a
13. Determine if a 1-digit whole number is a factor of another by division
14. Recognise that if $c = a \times b$, then a and b are factors of c
15. List the factors of a whole number up to 100
16. Identify the common factors of two whole numbers
17. Determine if 1-digit number is a common factor of two numbers
18. State that a multiple of a whole number is a product of 2 whole numbers
19. Determine if a number is a multiple of another by division
20. List the first 12 multiples of any given 1-digit number
21. Identify common multiples of two or three 1-digit whole numbers

UNIT THREE: WHOLE NUMBERS (3)

22. Multiply whole numbers (up to 4-digits) by a 1-digit number
23. Multiply a whole number (up to 3-digits) by 10 or tens
24. Multiply a whole number (2- or 3-digits) by another 2-digit number
25. Divide a whole number (up to 4-digits) by a 1-digit number with and without remainder
26. Solve up to three-step problems involving four operations
27. Use model drawing to help solve problems (i.e. bar model)

UNIT FOUR: TABLES AND LINE GRAPHS

28. Collect data and enter it into a table
29. Read and interpret simple data presented in a table
30. Transfer data from a graph to a table and vice versa
31. Read and interpret line graphs including those with different scales
32. Recognise the relationship between two values (x and y values)

UNIT FIVE: FRACTIONS

33. Express the sum of a whole number and a proper fraction as a mixed number
34. Interpret and draw region models of mixed numbers
35. Read, interpret and mark mixed numbers on a number line
36. Reduce the fractional part of a mixed number to its simplest form
37. Interpret an improper fraction as an extension of a proper fraction
38. Express region models of a mixed number as an improper fraction
39. Read, interpret and mark improper fractions on a number line
40. Reduce improper fractions to their simplest form
41. Convert and improper fraction to a mixed number by separating it into a whole and part of a whole
42. Convert and improper fraction to a mixed number by division
43. Convert a mixed number to an improper fraction by multiplication
44. Add and subtract 2 or 3 related fractions
45. Subtract a fraction from a whole number

46.	Find equivalent fractions of a given fraction
47.	Interpret a fraction as part of a set (e.g. $\frac{3}{4}$ is 3 groups of y out of 4 groups of y)
48.	Calculate the fraction of a set of items using multiplication and division
49.	Interpret a bar model of a fraction as a set divided into equal subsets
50.	Solve up to two-step word problems on addition and subtraction of fractions
51.	Solve up to two-step word problems on fractions of a set
UNIT SIX: ANGLES	
52.	State that an angle is made when two straight lines meet at a point (or vertex)
53.	Use three ways of naming an angle as $\angle ABC$, $\angle CBA$ or $\angle x$
54.	State that an angle is measured in degrees
55.	Measure angles up to 180° with a protractor
56.	Compare angles and say whether an angle is greater or smaller than a right angle
57.	Estimate the size of an angle
58.	Draw an angle up to 180° using a protractor and ruler
59.	Associate $\frac{1}{4}$ turn with 90° or 1 right angle etc. up to 360° with 4 right angles
60.	Name 8 directions on a compass
61.	Recognise the direction of a turn as clockwise or anticlockwise
UNIT SEVEN: PERPENDICULAR AND PARALLEL LINES	
62.	Draw perpendicular lines using a ruler and a set square (and on grid lines without a set square)
63.	Draw parallel lines using a set square and a ruler
64.	Identify horizontal and vertical lines
UNIT EIGHT: SQUARES AND RECTANGLES	
65.	State that a square has four equal sides and four right angles
66.	State that the opposite sides of a square are parallel
67.	State the opposite sides of a rectangle are equal and parallel
68.	State that a rectangle has four right angles
69.	Differentiate a square from a rectangle and vice versa
70.	Find unknown angles and sides of squares and rectangles
UNIT NINE: DECIMALS	
71.	Read and write tenths as decimals (1 decimal place)
72.	Recognise that 10 tenths = 1 one
73.	Write a fraction with denominator 10 as a decimal
74.	Read and write hundredths as decimals (2 decimal places)
75.	Recognise that 10 hundredths = 1 tenth
76.	Write a fraction with denominator 100 as a decimal
77.	Read and write thousandths as decimals (3 decimal places)
78.	Recognise that 10 thousandths = 1 hundredth
79.	Write a fraction with denominator 1000 as a decimal
80.	Compare and order decimals
81.	Round decimals to the nearest whole, tenth or hundredth (up to 2d.p)
82.	Express a fraction (whose denominator is a factor of 10 or 100) as a decimal by changing the denominator to 10 or 100
83.	Express a decimal as a fraction in its simplest form
UNIT TEN: DECIMALS (2)	
84.	Add and subtract decimals up to 2 decimal places
85.	Solve up to two-step word problems involving addition and subtraction of decimals
86.	Multiply and divide decimals (up to 2d.p.) by a 1-digit whole number
87.	Solve up to two-step word problems involving multiplication and division of decimals
UNIT ELEVEN: TIME	
88.	State that 60 seconds = 1 minute
89.	Measure and estimate duration in seconds

90.	Write the time using the 24 hour clock
91.	Convert from the 12 hour to the 24 hour clock and vice versa
92.	Find the duration between two given times using 24 hour clock
93.	Find the start/end time given the duration and the end/start time
UNIT TWELVE: AREA AND PERIMETER	
94.	Recall the formulas to find perimeter and area of a square and a rectangle
95.	Find the length/width of a rectangle given its perimeter/area and one length/width
96.	Find the side of a square given its perimeter or area
97.	Find the perimeter/area of a composite shape made up of squares and rectangles
UNIT THIRTEEN: SYMMETRY	
98.	Recognise symmetrical shapes and identify lines of symmetry in shapes
99.	Use a symmetrical shape to make a pattern
UNIT FOURTEEN: TESSELLATIONS	
100.	Recognise a tessellation and make a tessellation using a given shape