

# Numeracy Warm Up

## Introduction

Numeracy Warm Up is a set of numeracy exercises that can be used for starters, main lessons and plenaries. It is aimed at Numeracy lessons covering National Curriculum Levels 1 to 3 and Functional Skills Entry Level. The purpose of the product is to support the development of numeracy: to increase fluency and confidence with numbers.

Numeracy Warm Up is versatile and simple to use. It is not a self-learning package; we do not explain or teach how to do the tasks, we leave this to the teacher. Teachers can teach a skill using Maths Workout to demonstrate it on an interactive whiteboard, then students can practise the skills individually on exactly the same exercises, but with new questions regenerated at the same level of differentiation.

## Topics, Targets & Tasks

The content is split into Topics, Targets and Tasks...

- A **Topic** is a broad area of numeracy, broken down into 5 targets. Topics are accessed directly at [www.numeracywarmup.co.uk](http://www.numeracywarmup.co.uk) after logging in.
- A **Target** is a specific attainment outcome, which should be achievable in one sitting. Targets are accessed through the tabs at the top of the screen.
- A **Task** is an individual exercise which forms part of a target. Each task is accessed through the slider bar at the bottom of each screen.

Topics can be tackled in any order. The time required to complete a topic will vary between about 20 minutes and an hour, depending on the topic and the ability of the student. Students can revisit each topic any number of times without repetition as the 'Next Go' or 'Try Again' button randomly generates new questions at the same level of differentiation.

Targets in each topic usually become progressively more challenging. Completion of a target is indicated by a sound and by a 'Target Complete' trophy.

Students may attempt the tasks in any order, however it is better to attempt the tasks in numerical order, as where they naturally vary in difficulty, they have been carefully differentiated to ensure continuity of learning. Completion of a task is indicated by a sound and the task number turning green with a tick showing above it. Some tasks can be attempted mentally, however students are advised to work with a pencil and paper where necessary, then enter their answers on screen.

Where possible, it is better to use speakers or headphones to use this product, as it will be much more engaging.

These are the approximate levels for the various frameworks supported by our Maths and Numeracy product range. Each product has multiple uses and none of our products is guaranteed to cover all the content of any course, specification, level or framework.

Framework	Numeracy Warm Up	Numeracy Workout	Maths Workout
NC Levels	1-3	3-5	5-8+
Key Stages	1-2	2-4	3-4
GCSE Grades	-	D-G	A*-E
Numeracy Certificate	Entry	Entry & Level 1	Level 2
Functional Skills	Entry	Entry & Level 1	Level 2
Scottish Levels	Access 1	Access 1-3	Intermediate 1-2
Scottish SCQF	1	1-3	3-5
Standard Grade	-	Foundation	General & Credit
Age Range	All Ages	All Ages	All Ages

All products are available to view as samples at:

[www.numeracywarmup.co.uk](http://www.numeracywarmup.co.uk)  
[www.numeracyworkout.co.uk](http://www.numeracyworkout.co.uk)  
[www.mathsworkout.co.uk](http://www.mathsworkout.co.uk)

# Numeracy Warm Up

Number Tasks							
	Topic	Target 1	Target 2	Target 3	Target 4	Target 5	Total
1	Counting 1	5	3	4	4	7	23
2	Counting 2	6	4	4	4	4	22
3	Place Value 1	8	7	10	10	7	42
4	Place Value 2	6	7	3	9	6	31
5	Adding	6	6	4	8	9	33
6	Subtracting	7	5	6	7	7	32
7	Shape Patterns 1	4	5	3	2	8	22
8	Shape Patterns 2	2	3	4	6	6	21
9	Number Patterns	6	6	4	4	5	25
10	Number Words 1	6	10	4	1	2	23
11	Money 1	7	6	5	7	9	34
12	Money 2	4	9	10	10	4	37
13	Multiplying	9	6	8	9	10	42
14	Dividing	5	4	6	4	4	23
15	Fractions 1	3	4	2	4	6	19
16	Fractions 2	5	6	4	3	4	22
17	Rounding	2	4	2	3	5	16
18	Estimating	3	2	4	4	6	19
19	Number Words 2	6	11	6	1	2	26
<b>Total Number of Tasks</b>							<b>512</b>

Shape & Data Tasks							
	Topic	Target 1	Target 2	Target 3	Target 4	Target 5	Total
1	Measuring 1	10	3	4	5	7	29
2	Measuring 2	2	7	6	6	4	25
3	Symmetry 1	3	4	7	7	3	24
4	Symmetry 2	6	5	4	2	10	27
5	2D Shapes	8	6	8	6	5	33
6	Sorting Data 1	5	5	3	8	8	29
7	Sorting Data 2	5	5	3	2	5	20
8	Shape and Data Words 1	9	8	6	1	2	26
9	Time 1	4	8	10	6	10	38
10	Time 2	6	7	7	7	3	30
11	Position and Movement 1	4	5	7	3	8	27
12	Position and Movement 2	4	4	4	2	5	19
13	3D Shapes	3	6	4	2	5	20
14	Tally Charts and Pictograms	6	4	3	6	8	27
15	Bar Charts	8	6	4	6	8	32
16	Shape and Data Words 2	8	10	5	1	2	26
<b>Total Number of Tasks</b>							<b>432</b>
<b>Total Number of Tasks in Numeracy Warm Up</b>							<b>944</b>

# Numeracy Warm Up - Number

Number Topics						
Topic		Target 1	Target 2	Target 3	Target 4	Target 5
1	Counting 1	<i>Count up to 10 items</i>	<i>Count up to 20 items</i>	<i>Find one more and one less than a number between 1 and 20</i>	<i>Find ten more and ten less than a multiple of 10 up to 100</i>	<i>Find one more/less or ten more/less than a number between 1 and 100</i>
2	Counting 2	<i>Recognise and use ordinal numbers up to 10</i>	<i>Count on and back in twos with numbers up to 50</i>	<i>Count on and back in threes with numbers up to 50</i>	<i>Count on and back in fours with numbers up to 60</i>	<i>Count on and back in fives with numbers up to 60</i>
3	Place Value 1	<i>Order the numbers from 0 to 10 Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 20; Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 100; Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 1000; Convert numbers between word form and digit form</i>	<i>Compare two numbers using &lt; and &gt;</i>
4	Place Value 2	<i>Identify the value of a digit in a number; Partition a number between 11 and 19</i>	<i>Identify the value of a digit in a number; Partition a 2-digit number</i>	<i>Partition any 2 digit number</i>	<i>Identify the value of a digit in a number Partition a 3 digit number</i>	<i>Multiply by 10 and 100 (Extension)</i>
5	Adding	<i>Add two single digit numbers</i>	<i>Recall number bonds to 10 and 20</i>	<i>Add a single digit number to a single digit number or a 2-digit number up to 20</i>	<i>Add two 2-digit numbers and a 2-digit number to a 3 digit number</i>	<i>Mental addition – revision, quick recall and extension</i>
6	Subtracting	<i>Subtract a single digit number from a smaller single digit number</i>	<i>Subtract a single digit number from a 2-digit number, using a number line for support if required</i>	<i>Subtract two multiples of 10 and a multiple of 10 from a 2-digit number, using a number line for support if required</i>	<i>Subtract a 2-digit number from a 2-digit or 3-digit number; Subtract a 3-digit number from a 3-digit number</i>	<i>Mental subtraction – revision, quick recall and extension</i>
7	Shape Patterns 1	<i>Copy a shape pattern</i>	<i>Copy a shape pattern</i>	<i>Pairs game or teacher &amp; student activity: Create and copy a shape pattern</i>	<i>Complete missing elements in a pattern</i>	<i>Complete missing elements in a sequence of objects</i>
8	Shape Patterns 2	<i>Extend a sequence of shapes</i>	<i>Extend a sequence of shapes</i>	<i>Extend a line pattern</i>	<i>Extend a sequence of shapes</i>	<i>Extend a sequence of shapes; Extract information from the sequence of shapes to form a number sequence (Extension)</i>
9	Number Patterns	<i>Complete sequences of even and odd numbers up to 20</i>	<i>Complete sequences of odd and even numbers up to 100</i>	<i>Enter missing terms in sequences with a common difference (numbers up to 20)</i>	<i>Enter missing terms in sequences with a common difference (numbers up to 100)</i>	<i>Identify the rule in sequences with a common difference</i>
10	Number Words 1	<i>Sort addition and subtraction vocabulary Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 1 to 9</i>

# Numeracy Warm Up - Number

Number Topics						
Topic		Target 1	Target 2	Target 3	Target 4	Target 5
11	Money 1	<i>Recognise coins, make amounts and find totals up to 10p using 1p, 2p, 5p</i>	<i>Make and find totals using 1p, 2p, 5p, 10p, 20p</i>	<i>Make and find totals using 1p, 2p, 5p, 10p, 20p, 50p</i>	<i>Use decimal notation for £ and p; Recognising equivalence of £ and p notation; Convert between £ and p</i>	<i>Make and find totals Using 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2</i>
12	Money 2	<i>Calculate change and select the correct coins using 1p, 2p and 5p coins (up to 10p totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p coins (up to 50p totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p and 50p coins (up to £1 totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p, 50p and £1 coins (up to £2 totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins (up to £5 totals); Two-step operation</i>
13	Multiplying	<i>Double numbers up to 30</i>	<i>Understand multiplication as repeated addition, concentrating on 2</i>	<i>Understand multiplication as repeated addition, concentrating on 5 and 10</i>	<i>Multiply by 2, 5 and 10</i>	<i>Multiply by 3, 4 and 6</i>
14	Dividing	<i>To halve even numbers up to 100</i>	<i>To understand dividing as sharing and grouping</i>	<i>Divide by 2, 10 and 5</i>	<i>Divide by 3 and 4; Enter missing elements in division calculations</i>	<i>Divide with remainders</i>
15	Fractions 1	<i>Understand the vocabulary whole, half and quarter in context</i>	<i>Shade in one half, one third, and one quarter of a shape</i>	<i>Identify the fraction of a shape which is shaded</i>	<i>Work with and identify equivalent fractions through shading in shapes that have more parts than the chosen denominator</i>	<i>Work with and identify equivalent fractions through shapes that have more parts than the chosen denominator</i>
16	Fractions 2	<i>Identify one half, one third, one quarter and 3 quarters of a set of objects</i>	<i>Identify one half, one third, one quarter and 3 quarters of a set of objects Answer the matching fraction calculation</i>	<i>Read and write fractions using mathematical notation</i>	<i>Using mathematical notation, identify a unitary fraction of a set of objects Answer the matching fraction calculation</i>	<i>Using mathematical notation, use a unitary fraction as an operator; Compare fractions using diagrams; Extension: Identify any fraction (up to 10 as a denominator) of a shape</i>
17	Rounding	<i>Find the nearest multiple of ten for a 2 digit number (no numbers ending in 5)</i>	<i>Round 2 digit numbers to the nearest 10 using a number line</i>	<i>Round 3 digit numbers up to 200 to the nearest 10</i>	<i>Round 3 digit numbers to the nearest 10</i>	<i>Round 2 and 3 digit numbers to the nearest 100</i>
18	Estimating	<i>Engage with the vocabulary of estimating Distinguish between exact and approximate numbers</i>	<i>Estimate the approximate value of a number on a number line with no divisions other than interval limits; Estimate the relative size of shapes</i>	<i>Estimate which element of a set of objects is more numerous</i>	<i>Estimate the number of objects displayed</i>	<i>Select which is the best approximation to use for a calculation Use rounding to make an estimate of a calculation</i>
19	Number Words 2	<i>Sort multiplication and division vocabulary Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 1 to 8</i>

## Numeracy Warm Up - Number

<b>Topic 1 - Counting 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Count up to 10 items</i>	<i>Count up to 20 items</i>	<i>Find one more and one less than a number between 1 and 20</i>	<i>Find ten more and ten less than a multiple of 10 up to 100</i>	<i>Find one more/less or ten more/less than a number between 1 and 100</i>
1. Select the correct number of up to 10 objects	1. Select the correct number of up to 20 objects	1. Find one more than a number from 1 to 10	1. Find ten more than a multiple of 10	1. Find one more or less than a number between 1 and 100
2. Count the number of up to 10 objects	2. Count the number of up to 20 objects	2. Find one less than a number from 1 to 10	2. Find ten less than a multiple of 10	2. Find one more or less than a number between 1 and 100 (Extension)
3. Count the number of appearances of an object	3. Count the number of up to 20 objects and match the answer to the its written form	3. Find one more or less than a number from 1 to 20	3. Find ten more or less than a multiple of 10	3. Find one more or less than a number between 1 and 100 (Further Extension)
4. Count the number of up to 10 objects and match the answer to its written form		4. Find one more or less than a number from 1 to 20 (Extension)	4. Find ten more or less than a multiple of 10 (Extension)	4. Find ten more or less than a number between 1 and 100
5. Count the number of up to 10 objects - enter total as word				5. Find ten more or less than a number between 1 and 100 (Extended)
				6. Find ten more or less than a number between 1 and 100 (Further Extension)
				7. Count on in a game situation: Snakes & Ladders

## Numeracy Warm Up - Number

<b>Topic 2 - Counting 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Recognise and use ordinal numbers up to 10</i>	<i>Count on and back in twos with numbers up to 50</i>	<i>Count on and back in threes with numbers up to 50</i>	<i>Count on and back in fours with numbers up to 60</i>	<i>Count on and back in fives with numbers up to 60</i>
1. Order the ordinal numbers in abbreviated form	1. Count on in 2s by adding the next 3 numbers in sequence starting from an even number	1. Count on in 3s by adding the next 3 numbers in sequence starting from a multiple of 3	1. Count on in 4s by adding the next 3 numbers in sequence starting from a multiple of 4	1. Count on in 5s by adding the next 3 numbers in sequence starting from a multiple of 5
2. Order the ordinal numbers in word form	2. Count on in 2s by adding the next 3 numbers in sequence starting from any number	2. Count on in 3s by adding the next 3 numbers in sequence starting from any number	2. Count on in 4s by adding the next 3 numbers in sequence starting from any number	2. Count on in 5s by adding the next 3 numbers in sequence starting from any number
3. Identify the correct position in abbreviated form	3. Count back in 2s by adding the previous 3 numbers in sequence starting from an even number	3. Count back in 3s by adding the previous 3 numbers in sequence starting from a multiple of 3	3. Count back in 4s by adding the previous 3 numbers in sequence starting from a multiple of 4	3. Count back in 4s by adding the previous 3 numbers in sequence starting from a multiple of 5
4. Identify the correct position in word form	4. Count back in 2s by adding the previous 3 numbers in sequence starting from any number	4. Count back in 3s by adding the previous 3 numbers in sequence starting from any number	4. Count back in 4s by adding the previous 3 numbers in sequence starting from any number	4. Count back in 4s by adding the previous 3 numbers in sequence starting from any number
5. Find one in front of or one behind a given position in abbreviated form				
6. Find one in front of or one behind an object in an ordered set				

## Numeracy Warm Up - Number

<b>Topic 3 - Place Value 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Order the numbers from 0 to 10 Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 20 Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 100 Convert numbers between word form and digit form</i>	<i>Order the numbers from 0 to 1000 Convert numbers between word form and digit form</i>	<i>Compare two numbers using &lt; and &gt;</i>
1. Order the numbers 1 to 5 in digit form	1. Order a sequence of numbers	1. Order a sequence of numbers	1. Order a sequence of numbers within 0 to 1000	1. Select the greatest or smallest number from a pair
2. Order the numbers 1 to 9 in digit form	2. Complete a number line with more than one single missing entry	2. Complete a number line with more than one single missing entry	2. Complete a number line with more than one single missing entry	2. Complete statements involving the words 'greater than' or 'less than'
3. Order the numbers 0 to 10 in digit form	3. Complete a number line with a sequence of missing entries	3. Complete a number line with a sequence of missing entries	3. Complete a number line with a sequence of missing entries	3. Complete statements involving > and < by selecting the correct sign
4. Complete a number line with more than one single missing entry	4. Identify the correct position of a number on a number line	4. Identify the correct position of a multiple of 10 on a number line	4. Identify the correct position of a multiple of 100 on a number line	4. Complete statements involving > and < by selecting the correct sign (Extension)
5. Complete a number line with a sequence of missing entries	5. Order several non-consecutive numbers up to 20	5. Identify the correct position of a multiple of 5 on a number line	5. Identify the correct position of a multiple of 50 on a number line	5. Complete simple inequality statements by selecting appropriate numbers
6. Identify the correct position of a number on a number line	6. Write numbers in word form as digits	6. Identify the correct position of a number on a number line	6. Identify the correct position of a multiple of 5 on a number line	6. Speed response: Identify numbers that are less than 50
7. Write numbers in word form as digits	7. Write numbers in digit form as words	7. Order several non-consecutive numbers up to 100	7. Identify the correct position of a multiple of 5 on a number line (Extension)	7. Speed response: Identify numbers that are greater than 50
8. Write numbers in digit form as words		8. Identify a number which is included in an interval	8. Order several non-consecutive numbers up to 100	
		9. Write numbers in word form as digits	9. Write numbers in word form as digits	
		10. Match numbers in digit form to word form	10. Match numbers in digit form to word form	

## Numeracy Warm Up - Number

Topic 4 - Place Value 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Identify the value of a digit in a number Partition a number between 11 and 19</i>	<i>Identify the value of a digit in a number Partition a 2-digit number</i>	<i>Partition any 2 digit number</i>	<i>Identify the value of a digit in a number Partition a 3 digit number</i>	<i>Multiply by 10 and 100 (Extension)</i>
1. Recognise the value of a group of 10 and up to 9 ones.	1. Recognise the value of up to 9 groups of 10 and up to 9 ones.	1. Complete partitioning with a missing element, e.g. $55 = \_ + 5$ $31 = 30 + \_$ $\_ = 70 + 2$	1. Identify the value of a digit in a 3 digit number	1. Multiply a single digit by 10
2. Make a visual representation of a number using a block of ten and single cubes	2. Make a visual representation of a number using blocks of ten and single cubes	2. Partition a 2 digit number, e.g. $93 = \_ + \_$	2. Identify the greatest or smallest 3-digit number from a list	2. Multiply a number between 10 and 19 by 10
3. Identify the number of tens and ones in a number, e.g. $13 = 1$ ten and 3 units	3. Make a visual representation of a number on an abacus	3. Select the correct partitioning from 3 possibilities, e.g. $45 = 44 + 1$ $45 = 40 + 5$ $45 = 43 + 2$	3. Identify the greatest or smallest 3-digit number from a list including zero	3. Multiply any 2 digit number by 10
4. Partition a number e.g. $13 = 10$ and 3	4. Identify the number of ones in a number		4. Identify the greatest or smallest number that can be made from a set of three digits not including zero	4. Multiply a single digit by 100 (Extension)
5. Complete partitioning with a missing element, e.g. $15 = \_ + 5$	5. Identify the number of 10s in a number		5. Identify the greatest or smallest number that can be made from a set of three digits including zero	4. Multiply a 2 digit number by 100 (Extension)
6. Partition a number, e.g. $15 = \_ + \_$	6. Identify the number of tens and ones in a 2-digit number, e.g. $34 = 3$ tens and 4 units		6. Complete partitioning with a missing element. (0 not as a place holder)	6. Multiply any 1 or 2 digit number by 10 or 100 (Extension)
	7. Partition a number, e.g. $65 = \_ + \_$		7. Complete partitioning with a missing element (0 as a place holder)	
			8. Complete partitioning with two missing elements	
			9. Partition a 3 digit number	

## Numeracy Warm Up - Number

Topic 5 - Adding				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Add two single digit numbers</i>	<i>Recall number bonds to 10 and 20</i>	<i>Add a single digit number to a single digit number or a 2-digit number up to 20</i>	<i>Add two 2-digit numbers and a 2-digit number to a 3 digit number</i>	<i>Mental addition – revision, quick recall and extension</i>
1. Select two groups of objects to make a given total (up to 5)	1. Select two groups of objects to make 10	1. Add two single digit numbers, e.g. $6 + 5 = 11$	1. Add 10 to a single digit number	1. Speed response: Identify addition sums that total 10
2. Know addition facts for totals up to 5 using the word 'and' e.g. <i>3 and 1 make 4</i>	2. Select two digits to make 10	2. Complete missing elements in additions with two single digit numbers, e.g. $\_\_ + 5 = 11$	2. Add 10 to any 2-digit number	2. Speed response: Identify addition sums that total 20
3. Select two groups of objects to make a given total (up to 10)	3. Complete missing elements in addition sums which total 10	3. Add a single digit number to a 2-digit number up to 20, e.g. $6 + 15 = 21$	3. Add a multiple of 10 up to 50 to any number up to 50	3. Speed response: Identify addition sums with two multiples of 10 that total 100
4. Know addition facts for totals up to 10 using the word 'and' e.g. <i>6 and 2 make 8</i>	4. Select two groups of objects to make 20	4. Complete single missing elements in additions with one single digit number and a 2-digit number up to 20, e.g. $\_\_ + 5 = 17$	4. Add a multiple of 10 up to 90 to any number up to 100	4. Complete missing elements in addition sums with two multiples of 10 that total 100
5. Know addition facts for totals up to 10 using the plus symbol, e.g. $6 + 2 = 8$	5. Select two numbers to make 20		5. Add any two numbers up to 100	5. Complete addition sums with any two multiples of 10
6. Speed response: find the total of two dice	6. Complete missing elements in addition sums which total 20		6. Word problems in context involving adding any two numbers up to 100	6. Add 9 or 11 to a 2-digit number
			7. Add a number up to 99 to a or 3-digit number	7. Add 9 or 11 to a number which may involve an increase in the hundreds column
			8. Add two 3-digit numbers	8. Add 9, 11, 19 or 21 to a 2-digit number
				9. Add 9, 11, 19 or 21 to a number which may involve an increase in the hundreds column (Extension)

## Numeracy Warm Up - Number

<b>Topic 6 - Subtracting</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Subtract a single digit number from a smaller single digit number</i>	<i>Subtract a single digit number from a 2-digit number, using a number line for support if required</i>	<i>Subtract two multiples of 10 and a multiple of 10 from a 2-digit number, using a number line for support if required</i>	<i>Subtract a 2-digit number from a 2-digit or 3-digit number Subtract a 3-digit number from a 3-digit number</i>	<i>Mental subtraction – revision, quick recall and extension</i>
1. Take away up to 4 objects from a group of 5	1. Subtract a single digit number from a 2-digit number up to 19	1. Subtract two multiples of 10	1. Subtract a number up to 19 from a 2-digit number between 20 and 30	1. Speed response: Identify subtractions that equal 5
2. Take away up to 9 objects from a group of 10	2. Subtract a single digit number from a 2-digit number up to 30	2. Find 'how many more than' for two multiples of 10	2. Subtract two numbers up to 100	2. Speed response: Identify subtractions with two multiples of 10 that equal a given multiple of 10 up to 90
3. Subtraction up to 5 using 'take away' and 'leaves' e.g. 5 take away 3 leaves 2	3. Subtract a single digit number from any 2-digit number	3. Find the difference between 2 multiples of 10	3. Word problems in context involving subtracting two numbers	3. Speed response: Identify subtractions that equal 10
4. Subtraction up to 10 using 'take away' and 'leaves'	4. Find 'how many more than' for one group of objects up to 19 and one group up to 9	4. Subtract a multiple of 10 from any 2-digit number	4. Subtract a multiple of 10 from a 3-digit number	4. Subtract 9 or 11 from a 2 digit number
5. Subtraction up to 10 using minus sign and equals	5. Find the difference between one group of objects up to 19 and one group up to 9	5. Find 'how many more than' for a multiple of 10 and a 2-digit number	5. Subtract a number up to 100 from a 3-digit number	5. Subtract 9 or 11 from a 3-digit number involving decomposition of the hundreds column in some cases (Extension)
6. Find 'how many more than' for two groups of up to 10 objects		6. Find the difference between a 2-digit number and a multiple of 10	6. Subtract a multiple of 100 from a 3-digit number	6. Subtract 9, 11, 19 or 21 from a 2-digit number
7. Find the difference between two groups of up to 10 objects			7. Subtract a 3-digit number from a 3-digit number	7. Subtract 9, 11, 19 or 21 from a 3-digit number involving decomposition of the hundreds column in some cases (Extension)

## Numeracy Warm Up - Number

<b>Topic 7 - Shape Patterns 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Copy a shape pattern</i>	<i>Copy a shape pattern</i>	<i>Pairs game or teacher &amp; student activity</i> <i>Create and copy a shape pattern</i>	<i>Complete missing elements in a pattern</i>	<i>Complete missing elements in a sequence of objects</i>
1. Copy a pattern of squares	1. Copy a pattern of hexagons	1. Pairs game or teacher & student activity: create and copy a pattern of squares	1. Complete missing squares on a pattern of squares	1. Complete missing elements of a circular pattern with 2 distinct elements
2. Copy a pattern of squares	2. Copy a pattern of hexagons	2. Pairs game or teacher & student activity: create and copy a pattern of triangles	2. Complete missing elements in a pattern of triangles	2. Complete missing elements of a circular pattern with 2 distinct elements
3. Copy a pattern of triangles	3. Copy a pattern on a triangular grid	3. Pairs game or teacher & student activity: create and copy a pattern of hexagons		3. Complete missing elements of a circular pattern with 2 distinct elements
4. Copy a pattern of triangles	4. Copy a pattern on a triangular grid (Extension)			4. Complete missing elements of a circular pattern with 2 distinct elements
	5. Copy a pattern on a triangular grid (Extension)			5. Complete missing elements of a circular pattern with 3 distinct elements
				6. Complete missing elements of a circular pattern with 3 distinct elements
				7. Complete missing elements of a circular pattern with 3 distinct elements
				8. Complete missing elements of a circular pattern with 3 distinct elements

# Numeracy Warm Up - Number

Topic 8 - Shape Patterns 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Extend a sequence of shapes</i>	<i>Extend a sequence of shapes</i>	<i>Extend a line pattern</i>	<i>Extend a sequence of shapes</i>	<i>Extend a sequence of shapes Extract information from the sequence of shapes to form a number sequence (Extension)</i>
1. Extend a sequence of shapes by selecting a single element	1. Extend a set of three identical shapes by drawing another two shapes	1. Extend a line pattern by selecting line segments	1. Extend a sequence of increasing shapes by selecting line segments	1. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence
2. Extend a sequence of shapes by selecting a single element	2. Extend a set of three identical shapes by drawing another two shapes (Extension)	2. Extend a line pattern by selecting line segments (Extension)	2. Extend a sequence of increasing shapes by selecting line segments (Extension)	2. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence
	3. Extend a sequence of two or more distinct shapes by dragging shapes in place	3. Extend a line pattern by selecting line segments (Extension)	3. Extend a sequence of increasing shapes by selecting line segments (Extension)	3. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence
		4. Extend a line pattern by selecting line segments (Extension)	4. Extend a sequence of increasing shapes by selecting line segments (Extension)	4. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence
			5. Extend a sequence of increasing shapes by selecting line segments (Extension)	5. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence
			6. Extend a sequence of increasing shapes by selecting line segments (Extension)	6. Extend a sequence of increasing shapes by selecting line segments Sum the number of sides to create a number sequence

## Numeracy Warm Up - Number

<b>Topic 9 - Number Patterns</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Complete sequences of even and odd numbers up to 20</i>	<i>Complete sequences of odd and even numbers up to 100</i>	<i>Enter missing terms in sequences with a common difference (numbers up to 20)</i>	<i>Enter missing terms in sequences with a common difference (numbers up to 100)</i>	<i>Identify the rule in sequences with a common difference</i>
1. Recognise even and odd numbers	1. Extend sequences of odd and even numbers up to 100	1. Extend increasing sequences	1. Extend increasing sequences	1. Identify the rule in an increasing sequence with a common difference (numbers up to 20)
2. Speed response: Recognise even numbers	2. Complete missing elements in increasing sequences of odd and even numbers up to 100	2. Enter missing elements in increasing sequences	2. Enter missing elements in increasing sequences	2. Identify the rule in a decreasing sequence with a common difference (numbers up to 20)
3. Speed response: Recognise odd numbers	3. Complete missing elements in increasing or decreasing sequences of odd and even numbers up to 100	3. Extend decreasing sequences	3. Extend decreasing sequences	3. Identify the rule in an increasing sequence with a common difference (numbers up to 100)
4. Extend increasing sequences of odd and even numbers up to 20	4. Speed response: Sort numbers into odd and even	4. Enter missing elements in decreasing sequences	4. Enter missing elements in increasing or decreasing sequences	4. Identify the rule in a decreasing sequence with a common difference (numbers up to 100)
5. Complete missing elements in increasing sequences of odd and even numbers up to 20	5. Speed response: Recognise even numbers			5. Identify the rule in an increasing or decreasing sequence with a common difference (numbers up to 100)
6. Complete missing elements in decreasing sequences of odd and even numbers up to 20	6. Speed response: Recognise odd numbers			

## Numeracy Warm Up - Number

<b>Topic 10 - Number Words 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Sort addition and subtraction vocabulary</i> <i>Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 1 to 9</i>
1. Sort addition and subtraction vocabulary	1. Identify the numbers 1 to 10, written as words	1. Complete crossword clues: 1 more than/1 less than a number from one to ten	1. Complete hidden number words by guessing letters	1. Answer mixed questions on topics 1 to 9
2. Match numeracy terms to their definitions	2. Identify the numbers 11 to 20, written as words	2. Complete crossword clues: 1 more than/1 less than a number from eleven to twenty		2. Answer mixed questions on topics 1 to 9 (Extension)
3. Match numeracy terms to their definitions	3. Identify the multiples of 10 written as words	3. Complete crossword clues: 10 more than/10 less than a multiple of ten		
4. Match numeracy terms to their definitions	4. Identify a selection of 2-digit numbers in word form	4. Complete crossword clues on ordinal numbers		
5. Match numeracy terms to their definitions	5. Identify the ordinal numbers from first to tenth in word form			
6. Match numeracy terms to their definitions	6. Identify the ordinal numbers from eleventh to twentieth in word form			
	7. Identify addition terms			
	8. Identify subtraction terms			
	9. Identify number terms			
	10. Identify number terms			

# Numeracy Warm Up - Number

<b>Topic 11 - Money 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Recognise coins, make amounts and find totals up to 10p using 1p, 2p, 5p</i>	<i>Make and find totals using 1p, 2p, 5p, 10p, 20p</i>	<i>Make and find totals using 1p, 2p, 5p, 10p, 20p, 50p</i>	<i>Use decimal notation for £ and p Recognising equivalence of £ and p notation Convert between £ and p</i>	<i>Make and find totals Using 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2</i>
1. Sort coins in order of their value	1. Make totals up to 20p using 1p, 2p, 5p and 10p coins	1. Make totals up to 90p using 10p, 20p and 50p coins	1. Match pence to Pound amounts up to £2	1. Make totals up to £10 (whole number £1s) using £1 and £2 coins
2. Recognise coins game	2. Make totals up to 50p (multiples of 10) using 10p and 20p coins	2. Find the missing coin to make a total up to 90p using 10p, 20p and 50p coins	2. Convert from pence to Pounds up to £2	2. Make totals up to £10 (e.g. £4.60, £2.30) using 10p, 20p, 50p, £1 and £2 coins
3. Make 4p in 3 different ways	3. Make totals up to 50p using 1p, 2p, 5p, 10p and 20p coins	3. Make totals up to 99p	3. Convert from Pounds to pence up to £2	3. Make totals up to £10 using all the coins
4. Make 5p in 3 different ways	4. Find the missing coin to make a total up to 50p	4. Find the missing coin to make a total up to 99p	4. Match pence to Pounds amounts up to £5	4. Find the missing coin to make a total up to £2
5. Make totals between 6p and 10p using 1p, 2p and 5p coins	5. Find the total of 3 coins up to 20p	5. Find the total of 3 coins	5. Convert from pence to Pounds up to £5	5. Find the missing coin to make a total up to £5
6. Find the total of two coins up to 10p	6. Find the total of 3 coins up to 50p		6. Convert from Pounds to pence up to £5	6. Find the total of 3 coins up to £2
7. Find the total of 3 coins up to 10p			7. Convert between pence and Pounds up to £5	7. Find the total of 4 coins up to £2
				8. Find the total of 4 coins up to £5
				9. Find the total of 4 coins up to £8

## Numeracy Warm Up - Number

<b>Topic 12 - Money 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Calculate change and select the correct coins using 1p, 2p and 5p coins (up to 10p totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p coins (up to 50p totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p and 50p coins (up to £1 totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p, 50p and £1 coins (up to £2 totals)</i>	<i>Calculate a bill, change and select the correct coins using 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins (up to £5 totals)</i> <i>Two-step operation</i>
1. Calculate change from 5p	1. Calculate a bill up to 20p with 3 items	1. Calculate a bill up to £1 with 3 items priced as multiples of 10p	1. Calculate a bill up to £2 with 3 items priced as multiples of 10p	1. Calculate a bill up to £5 with 3 items
2. Choose the correct coins to give change from 5p	2. Calculate the change from 20p	2. Calculate the change from £1 for multiples of 10p	2. Calculate the change from £2 for multiples of 10p	2. Calculate the change from £5
3. Calculate change from 10p	3. Calculate a bill and the change from 20p	3. Choose the correct coins to give change from £1 for bills in multiples of 10p	3. Choose the correct coins to give change from £2 for bills in multiples of 10p	3. Calculate a bill and the change from £5
4. Choose the correct coins to give change from 10p	4. Choose the correct coins to give change from 20p	4. Calculate a bill up to £1 with 3 items priced as multiples of 5p	4. Calculate a bill up to £2 with 3 items priced as multiples of 5p	4. Choose the correct coins to give change from £5
	5. Calculate a bill up to 50p with 3 items	5. Calculate the change from £1 for multiples of 5p	5. Calculate the change from £2 for multiples of 5p	
	6. Calculate the change from 50p from a multiple of 5	6. Choose the correct coins to give change from £1 for bills in multiples of 5p	6. Choose the correct coins to give change from £2 for bills in multiples of 5p	
	7. Calculate the change from 50p	7. Calculate a bill up to £1 with 3 items	7. Calculate a bill up to £2 with 3 items	
	8. Calculate a bill and the change from 50p	8. Calculate the change from £1	8. Calculate the change from £2	
	9. Choose the correct coins to give change from 50p	9. Calculate a bill and the change from a £1	9. Calculate a bill and the change from a £2	
		10. Choose the correct coins to give change from £1 using the least number of coins	10. Choose the correct coins to give change from £2	

## Numeracy Warm Up - Number

<b>Topic 13 - Multiplying</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Double numbers up to 30</i>	<i>Understand multiplication as repeated addition, concentrating on 2</i>	<i>Understand multiplication as repeated addition, concentrating on 5 and 10</i>	<i>Multiply by 2, 5 and 10</i>	<i>Multiply by 3, 4 and 6</i>
1. Find the total of two groups of the same size up to 5	1. Identify the even numbers on a hundred square	1. Identify the multiples of 10 on a hundred square	1. Speed Response: Identify the even numbers	1. Complete multiplication tasks involving 3, e.g. $4 \times 3 = 12$
2. Complete missing elements in doubles calculations up to 10, e.g. 4 and 4 makes 8	2. Find the total of two or more groups of 2	2. Identify the multiples of 5 on a hundred square	2. Speed Response: Identify multiples of 10	2. Complete missing elements in calculations of multiplications of 3
3. Complete missing elements in doubles calculations up to 10 using mathematical notation, e.g. $4 + 4 = 8$	3. Complete missing elements in repeated addition calculations involving 2 e.g. $2 + 2 + 2 = 6$	3. Match a repeated set of 10 objects to its description using terms 'lots of' or 'groups of'	3. Speed Response: Identify multiples of 5	3. Complete multiplication tasks involving 4, e.g. $7 \times 4 = 28$
4. Select the correct calculation to match two groups of up to 5 objects	4. Match a repeated set of 2 objects with the corresponding repeated addition calculation	4. Match a repeated set of 10 objects with the corresponding multiplication calculation	4. Complete multiplication tasks involving 2, e.g. $4 \times 2 = 8$	4. Complete missing elements in calculations of multiplications of 4
5. Select the correct calculation to match two groups of from 6 to 10 objects	5. Match the repeated addition calculation with repeated groups of objects	5. Match a repeated set of 5 objects to its description using terms 'lots of' or 'groups of'	5. Complete missing elements in calculations of multiplications of 2	5. Complete multiplication tasks involving 6, e.g. $3 \times 6 = 18$
6. Complete missing elements in doubles calculations up to 20, e.g. $6 + 6 = 12$	6. Match a repeated addition calculation to its equivalent multiplication calculation	6. Match a repeated set of 5 objects with the corresponding multiplication calculation	6. Complete multiplication tasks involving 10, e.g. $7 \times 10 = 70$	6. Complete missing elements in calculations of multiplications of 6
7. Complete missing elements in doubles calculations up to 50 for multiples of 5 e.g. $15 + 15 = 30$		7. Match a repeated addition calculation to its equivalent multiplication calculation	7. Complete missing elements in calculations of multiplications of 10	7. Complete multiplication tasks involving 2, 3, 4, 5, 6 or 10
8. Speed Response: Identify a number and its double up to 30		8. Match a repeated addition calculation to its equivalent multiplication calculation	8. Complete multiplication tasks involving 5, e.g. $6 \times 5 = 30$	8. Complete missing elements in multiplication tasks involving 2, 3, 4, 5, 6 or 10
9. Speed Response: Identify a number and its double up to 100 (Extension)			9. Complete missing elements in calculations of multiplications of 5	9. Speed Response: Multiplication tables for 2, 5 and 10
				10. Speed Response: Multiplication tables for 3, 4 and 6

## Numeracy Warm Up - Number

Topic 14 - Dividing				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>To halve even numbers up to 100</i>	<i>To understand dividing as sharing and grouping</i>	<i>Divide by 2, 10 and 5</i>	<i>Divide by 3 and 4 Enter missing elements in division calculations</i>	<i>Divide with remainders</i>
1. Halve even numbers to up to 10. Use language to describe halving process, e.g. Half of 8 is 4	1. Share objects equally between 2, 3, 4 or 5 recipients. Use language to describe the process, e.g. 12 shared by 3 is 4	1. Divide an even number up to 100 by 2	1. Divide a multiple of 3 up to 30 by 3	1. Share objects between 2, 3, 4 or 5 recipients with a remainder. Use language to describe the process, e.g. 9 shared by 5 is 1 remainder 4
2. Complete missing elements in halving calculations up to 10, e.g. Half of 10 is 5	2. Share objects between 2, 3, 4 or 5 recipients. Use mathematical calculation to describe the process, e.g. $12 \div 3 = 4$	2. Divide a multiple of 10 up to 100 by 10	2. Divide a multiple of 4 up to 40 by 4	2. Divide by 2, 3, 4, 5 or 10 with a remainder
3. Halve even numbers to up to 20. Use language to describe halving process, e.g. Half of 16 is 8	3. Answer grouping/sharing questions in context, e.g. <i>we have 10 cakes. How many plates can we put 5 cakes on?</i>	3. Divide a multiple of 5 up to 50 by 5	3. Divide by 3 or 4	3. Divide by 2, 3, 4, 5 or 10 stating remainder only
4. Halve even numbers to up to 50. Use language to describe halving process, e.g. Half of 40 is 20	4. Complete missing elements in descriptions of grouping, e.g. 15 grouped into 3s is 5, 15 split into 3 groups is 5, etc.	4. Divide by 2, 10 or 5 - match answers to calculations	4. Enter missing elements in division calculations involving dividing by 3 and 4	4. Divide in a practical context with remainders that have to be rounded up or down. (Extension)
5. Halve even numbers to up to 100. Use language to describe halving process, e.g. Half of 60 is 30		5. Divide by 2, 10 or 5		
		6. Enter missing elements in division calculations involving dividing by 2, 10 or 5		

## Numeracy Warm Up - Number

<b>Topic 15 - Fractions 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Understand the vocabulary whole, half and quarter in context</i>	<i>Shade in one half, one third, and one quarter of a shape</i>	<i>Identify the fraction of a shape which is shaded</i>	<i>Work with and identify equivalent fractions through shading in shapes that have more parts than the chosen denominator</i>	<i>Work with and identify equivalent fractions through shapes that have more parts than the chosen denominator</i>
1. Match whole and half pictures to the correct vocabulary	1. Shade one half a shape	1. Identify the fraction of a shape which is shaded (one half, one third, or one quarter,)	1. Shade one half a shape	1. Identify the fraction of a shape which is shaded (one half, one third, or one quarter,)
2. Match whole and quarter pictures to the correct vocabulary	2. Shade one third of a shape	2. Identify the fraction of a shape which is shaded (one half, one third, one quarter or three quarters)	2. Shade one third of a shape	2. Identify the fraction of a shape which is shaded (one half, one third, one quarter, two thirds or three quarters)
3. Match whole, half and quarter pictures to the correct vocabulary	3. Shade one quarter of a shape		3. Shade one quarter of a shape	3. Identify equivalent fractions to a half, through shaded shapes
	4. Shade one half, one third or one quarter of a shape		4. Shade one half, one third, one quarter of a shape	4. Identify equivalent fractions to a third, through shaded shapes
				5. Identify equivalent fractions to a quarter, through shaded shapes
				6. Identify equivalent fractions to three quarters, through shaded shapes

## Numeracy Warm Up - Number

Topic 16 - Fractions 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Identify one half, one third, one quarter and 3 quarters of a set of objects</i>	<i>Identify one half, one third, one quarter and 3 quarters of a set of objects</i> <i>Answer the matching fraction calculation</i>	<i>Read and write fractions using mathematical notation</i>	<i>Using mathematical notation, identify a unitary fraction of a set of objects</i> <i>Answer the matching fraction calculation</i>	<i>Using mathematical notation, use a unitary fraction as an operator</i> <i>Compare fractions using diagrams</i> <i>Extension: Identify any fraction (up to 10 as a denominator) of a shape</i>
1. Identify one half a set of objects	1. Identify one half a set of objects and complete the matching fraction calculation	1. Write one half, one third, one quarter and three quarters using mathematical notation	1. Identify $\frac{1}{2}$ , $\frac{1}{3}$ or $\frac{1}{4}$ of a set of objects	1. Complete fraction calculations, with $\frac{1}{2}$ , $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{1}{6}$ , using mathematical notation
2. Identify one third of a set of objects	2. Identify one third of a set of objects and complete the matching fraction calculation	2. Read one half, one third, one quarter and three quarters, by identifying the correct spoken form of a fraction, e.g. $\frac{1}{2}$ = one half	2. Identify $\frac{1}{2}$ , $\frac{1}{3}$ or $\frac{1}{4}$ of a set of objects and complete the matching fraction calculation using mathematical notation	2. Complete fraction calculations in context with $\frac{1}{2}$ , $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{1}{6}$
3. Identify one quarter of a set of objects	3. Identify one quarter of a set of objects and complete the matching fraction calculation	3. Write fifths, eighths and tenths using mathematical notation	3. Complete fraction calculations, with $\frac{1}{2}$ , $\frac{1}{3}$ or $\frac{1}{4}$	3. Extension: Use a diagram to compare fractions, e.g. which is bigger or smaller?
4. Identify three quarters of a set of objects	4. Identify three quarters of a set of objects and complete the matching fraction calculation	4. Read fifths, eighths and tenths by identifying the correct spoken form, e.g. $\frac{3}{8}$ = three eighths		4. Extension: Shade in other fractional amounts of a shape, e.g. $\frac{2}{5}$ , $\frac{3}{7}$
5. Identify one half, one third, one quarter or three quarters of a set of objects	5. Identify one half, one third, one quarter or three quarters of a set of objects and complete the matching fraction calculation			
	6. Complete fraction calculations, with one half, one third and one quarter, three quarters, e.g. one half of 6 = 3			

## Numeracy Warm Up - Number

<b>Topic 17 - Rounding</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Find the nearest multiple of ten for a 2 digit number (no numbers ending in 5)</i>	<i>Round 2 digit numbers to the nearest 10 using a number line</i>	<i>Round 3 digit numbers up to 200 to the nearest 10</i>	<i>Round 3 digit numbers to the nearest 10</i>	<i>Round 2 and 3 digit numbers to the nearest 100</i>
1. Using a number line, match a number up to 44 to it's nearest multiple of 10	1. Round a number up to 50 to the nearest 10 using a number line	1. Round a number up to 200 to the nearest 10	1. Round a number up to 500 to the nearest 10	1. Using a number line find the nearest multiple of 100 of a multiple of 10
2. Speed Response: Drag a number to its nearest multiple of 10 (Bees with four hives, 10,20,30,40)	2. Round a number up to 100 to the nearest 10 using a number line	2. Speed Response: Round a number up to 200 to the nearest 10	2. Round a number up to 1000 to the nearest 10	2. Using a number line find the nearest multiple of 100 of any number
	3. Round a number up to 100 to the nearest 10. (Alternative presentation)		3. Speed Response: Round a number up to 1000 to the nearest 10	3. Round a number up to 1000 to the nearest 100
	4. Speed Response: Round a 2 digit number to the nearest 10			4. Speed Response: Round a number up to 1000 to the nearest 100
				5. Round a number up to 2000 to the nearest 100

## Numeracy Warm Up - Number

Topic 18 - Estimating				
Target 1	Target 2	Target 3	Target 4	Target 5
<p><i>Engage with the vocabulary of estimating</i></p> <p><i>Distinguish between exact and approximate numbers</i></p>	<p><i>Estimate the approximate value of a number on a number line with no divisions other than interval limits</i></p> <p><i>Estimate the relative size of shapes</i></p>	<p><i>Estimate which element of a set of objects is more numerous</i></p>	<p><i>Estimate the number of objects displayed</i></p>	<p><i>Select which is the best approximation to use for a calculation</i></p> <p><i>Use rounding to make an estimate of a calculation</i></p>
<p>1. Engage with the language of estimating, e.g. around, about, nearly, almost, just over, just under, roughly, about the same as, etc.</p>	<p>1. Estimate the value of a number on a number line</p>	<p>1. Estimate which of two colours of sock is more numerous</p>	<p>1. Estimate the number of objects displayed from 12 to 25</p>	<p>1. Select which approximation is the best, when adding 2 digit numbers less than 50, e.g. <math>12 + 19</math>: <math>10 + 10</math> or <math>10 + 20</math></p>
<p>2. Engage with the language of estimating by completing statements about approximate values.</p>	<p>2. Identify a shape that is approximately the same size as a given shape</p>	<p>2. Estimate which of two items of cutlery is more numerous</p>	<p>2. Estimate the number of objects displayed from 25 to 60</p>	<p>2. Round each number to the nearest 10, to estimate a single stage addition using numbers up to 50</p>
<p>3. Identify statements which use estimated numbers from statements which use exact numbers</p>		<p>3. Estimate which of three colours of sock is more numerous</p>	<p>3. Estimate the number of objects displayed from 60 to 120</p>	<p>3. Select which approximation is the best, when subtracting 2 digit numbers less than 100</p>
		<p>4. Estimate which of three items of cutlery is more numerous</p>	<p>4. Estimate the number of objects displayed from 120 to 200</p>	<p>4. Round each number to the nearest 10, to estimate a single stage subtraction using numbers up to 100</p>
				<p>5. Round each number to the nearest 10, to estimate a single stage multiplication</p>
				<p>6. Round each number to the nearest 10, to estimate a single stage division</p>

## Numeracy Warm Up - Number

<b>Topic 19 - Number Words 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Sort multiplication and division vocabulary</i> <i>Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 11 to 18</i>
1. Sort multiplication and division vocabulary	1. Identify money terms	1. Complete crossword clues on numeracy definitions	1. Complete hidden number words by guessing letters	1. Answer mixed questions on topics 11 to 18
2. Match numeracy terms to their definitions	2. Identify money terms	2. Complete crossword clues on numeracy definitions		2. Answer mixed questions on topics 11 to 18 (Extension)
3. Match numeracy terms to their definitions	3. Identify money terms	3. Complete crossword clues on numeracy definitions		
4. Match numeracy terms to their definitions	4. Identify money terms	4. Complete crossword clues on numeracy definitions		
5. Match numeracy terms to their definitions	5. Identify multiplication terms	5. Complete crossword clues on numeracy definitions		
6. Match numeracy terms to their definitions	6. Identify division terms	6. Complete crossword clues on numeracy definitions		
	7. Identify fraction terms			
	8. Identify rounding and estimating terms			
	9. Identify mixed number terms			
	10. Identify mixed number terms			
	11. Identify mixed number terms			

## Numeracy Warm Up - Shape & Data

Shape & Data Topics						
Topic		Target 1	Target 2	Target 3	Target 4	Target 5
1	Measuring 1	<i>Understand the function of a balance Use words to compare quantities, e.g. heavier/lighter, bigger/smaller</i>	<i>Know the names of simple measuring equipment Identify the most suitable measuring device</i>	<i>Identify the most appropriate unit of measure for a task</i>	<i>Match a unit of measure to its symbol Know relationships between km and m: m and cm: kg and g: l and ml:</i>	<i>Compare different lengths, weights and capacities using standard units (km, m, cm, mm kg, g, litre, ml)</i>
2	Measuring 2	<i>Interpret a simple balance</i>	<i>Measure the length and height of an object using a ruler to the nearest cm and nearest ½ cm</i>	<i>Read a linear scale and interpret subdivisions</i>	<i>Read a circular scale and interpret subdivisions</i>	<i>Take a measurement by reading analogue weighing scales, and scales on measuring jugs</i>
3	Symmetry 1	<i>Engage with line symmetry; Create and complete a design with 1 line of symmetry</i>	<i>Engage with line symmetry; Create and complete a design with 1 line of symmetry</i>	<i>Complete a single colour pattern of squares with one line of symmetry</i>	<i>Complete a multi-coloured pattern of squares with one line of symmetry</i>	<i>Pairs Task: Complete a multi-coloured pattern of squares with one line of symmetry</i>
4	Symmetry 2	<i>Complete a pattern of lines with one line of symmetry</i>	<i>Complete a pattern of lines with one line of symmetry</i>	<i>Distinguish between a pattern with and a pattern without line symmetry; attach a line of symmetry to a shape or pattern</i>	<i>Attach a line of symmetry to a complex single colour and multi-coloured pattern</i>	<i>Solve a word puzzle with line symmetry</i>
5	2D Shapes	<i>Distinguish between squares, circles and triangles by continuing simple patterns</i>	<i>Identify 2D shapes and their names: square, circle, triangle, rectangle, pentagon, hexagon</i>	<i>Identify shapes amongst other pictorial data Identify shapes with a restricted view</i>	<i>Identify the properties of 2D shapes</i>	<i>Identify the right angles in a picture; distinguish between right angles and non-right angles</i>
6	Sorting Data 1	<i>Identify the odd one out in a set of 3 or more objects.</i>	<i>Sort pictorial data into groups</i>	<i>Sort numerical data into groups</i>	<i>Sort pictorial data into a table; retrieve data from a table</i>	<i>To identify the maximum, minimum and median of a data set by sorting</i>
7	Sorting Data 2	<i>Sort pictorial data into a Carroll diagram Sort numerical data into a Carroll diagram</i>	<i>Interpret a Carroll diagram holding pictorial data; interpret a Carroll diagram holding numerical data</i>	<i>Sort pictorial data into a Venn diagram</i>	<i>Sort numerical data into a Venn diagram</i>	<i>Interpret a Venn diagram holding pictorial data; interpret a Venn diagram holding numerical data</i>
8	Shape and Data Words 1	<i>Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in words</i>	<i>Quiz: Mixed questions on Topics 1 to 7</i>

## Numeracy Warm Up - Shape & Data

Shape & Data Topics						
Topic		Target 1	Target 2	Target 3	Target 4	Target 5
9	Time 1	<i>Sort familiar everyday activities into sequence</i>	<i>Sort the days of the week, months of the year and seasons</i>	<i>Engage with the numbers on a clock face Read the time to the hour and half hour Set the time on a clock</i>	<i>Engage with language of time Calculate time interval end points: Identify an hour earlier or later than whole hour or half past times</i>	<i>Read the time to quarter past and quarter to the hour Set the time on a clock by arranging the hands to show the correct time</i>
10	Time 2	<i>Engage with language of time; Calculate time interval end points that cross the hour: Identify an hour or half hour earlier or later than whole hour, half past times, quarter past and quarter to times</i>	<i>Read a 12 hr digital clock to the hour and half past</i>	<i>Read a 12 hr digital clock to quarter past and quarter to</i>	<i>Read a 12 hr clock, digital or analogue, to the nearest 5 minutes</i>	<i>Use units of time and know relationships between them: seconds, minutes, hours, days in week/fortnight, weeks/months in a year</i>
11	Position and Movement 1	<i>Understand, use and identify relative position: to the left of, to the right of, above, below, underneath, under</i>	<i>Understand, use and identify relative position: in the centre of, to the left of, to the right of, under, over, below, above</i>	<i>Follow and give instructions to move an object along a grid to a given position</i>	<i>Engage with the concept of turn Identify objects that contain turning points or lines of turn</i>	<i>Understand and use whole, half and quarter turns</i>
12	Position and Movement 2	<i>Plot coordinates in the 1<sup>st</sup> quadrant</i>	<i>Read coordinates in the 1<sup>st</sup> quadrant</i>	<i>Plot and read coordinates in the 1<sup>st</sup> quadrant in a game situation</i>	<i>Engage with the face of a compass and compass directions</i>	<i>Use the 4 compass directions to locate objects and describe relative position</i>
13	3D Shapes	<i>Identify 3D solids and their names: cube, cuboid, cone, sphere, cylinder</i>	<i>Engage with the range and variety of different 2D representations of 3D solids</i>	<i>Visualise in 3D by counting cubes in 3D shapes</i>	<i>Distinguish between 2D shapes and 3D solids Relate real life objects to their basic mathematical shape</i>	<i>Identify the properties of 3D solids</i>
14	Tally Charts and Pictograms	<i>Sort data into a tally chart Complete a tally chart with missing information</i>	<i>Interpret a tally chart</i>	<i>Interpret a pictogram with one icon representing one data item</i>	<i>Interpret a pictogram with one icon representing 2, 5 or 10 data items</i>	<i>Construct a pictogram</i>
15	Bar Charts	<i>Interpret a vertical bar chart with vertical axis having a scale of 1 increment: 4 categories</i>	<i>Interpret a vertical bar chart with vertical axis having a scale of 2, 5 or 10 increments: 5 categories</i>	<i>Construct a vertical bar chart: vertical scale in increments of 1: 5 categories</i>	<i>Construct a vertical bar chart with vertical scale in increments of 2, 5 and 10: 5 categories</i>	<i>Interpret and construct a vertical bar chart with vertical scale in increments of 1,2, 5 and 10: 5 categories</i>
16	Shape and Data Words 2	<i>Sort addition and subtraction vocabulary Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 1 to 7</i>

## Numeracy Warm Up - Shape & Data

Topic 1 - Measuring 1				
Target 1	Target 2	Target 3	Target 4	Target 5
<p><i>Understand the function of a balance</i></p> <p><i>Use words to compare quantities, e.g. heavier/lighter, bigger/smaller, longer/shorter, thicker/thinner,</i></p>	<p><i>Know the names of simple measuring equipment</i></p> <p><i>Identify the most suitable measuring device</i></p>	<p><i>Identify the most appropriate unit of measure for a task</i></p>	<p><i>Match a unit of measure to its symbol</i></p> <p><i>Know relationships between km and m: m and cm: kg and g: l and ml:</i></p>	<p><i>Compare different lengths, weights and capacities using standard units (km, m, cm, mm kg, g, litre, ml)</i></p>
1. Memory Game: Match comparatives and superlatives	1. Identify the names of various measuring devices, e.g. ruler, balance, weighing scales (analogue dial), metre stick, measuring jug, measuring tape	1. Identify the most appropriate unit of measure, from m, cm, l and kg	1. Match symbol to full unit, e.g. cm = centimetre (mm, cm, m, km, g, kg, ml, l)	1. Order a set of weights
2. Understand the function of a balancing scale	2. Identify the most suitable measuring device	2. Identify the most appropriate unit of length, selecting mm, cm, m or km	2. Memory game: Match symbol to full unit	2. Order a set of weights (Extension)
3. Identify which of two objects is heavier or lighter	3. Choose the most suitable piece of equipment to measure different lengths	3. Identify the most appropriate unit of weight, selecting g or kg	3. Complete missing elements in relationships between measurements, e.g. 1 metre equals 100 cm	3. Order a set of lengths
4. Complete missing words in weight comparison statements		4. Identify the most appropriate unit of capacity, selecting ml or l	4. Complete missing elements in table of relationships between measurements, e.g. 1 m = 100 cm	4. Order a set of lengths (Extension)
5. Identify which of two objects is bigger or smaller			5. Memory game: Match equivalent measurements	5. Order a set of lengths (Extension)
6. Complete missing words in size comparison statements				6. Order quantities of liquid
7. Identify which of two objects is longer or shorter				7. Order quantities of liquid
8. Complete missing words in length comparison statements				
9. Identify which of two lines is thicker or thinner				
10. Complete missing words in width comparison statements				

## Numeracy Warm Up - Shape & Data

Topic 2 - Measuring 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Interpret a simple balance</i>	<i>Measure the length and height of an object using a ruler to the nearest cm and nearest ½ cm</i>	<i>Read a linear scale and interpret subdivisions</i>	<i>Read a circular scale and interpret subdivisions</i>	<i>Take a measurement by reading analogue weighing scales, and scales on measuring jugs</i>
1. Interpret a simple balance and find the weight of an object	1. Measure objects to the nearest cm using a strip of cubes	1. Enter missing multiples of 10 along linear scales from 0 to 100	1. Read a speedometer	1. Read analogue weighing scales with main divisions labelled, to the nearest kg
2. Select the correct weights for one side of a balance, and find the weight of an object	2. Measure lines to the nearest cm using a fixed scale	2. Enter missing multiples of 10 along linear scales between 100 and 200	2. Read a circular scale from 0 to 100. Main division - 10s, subdivisions marked but not labelled	2. Read analogue weighing scales with main divisions labelled, to the nearest ½ kg
	3. Measure objects to the nearest cm using a fixed scale	3. Enter missing multiples of 10 along linear scales between 200 and 500	3. Read circular scales from 0 to 100. Main division - 10s, subdivisions marked but not labelled. (Extension)	3. Measure the amount of liquid to the nearest litre using a measuring cylinder
	4. Measure lines to the nearest cm using a moveable ruler	4. Read linear scales from 0 to 100. Main division - 10s, subdivisions marked but not labelled	4. Read circular scales from 100 to 200. Main division - 10s, subdivisions marked but not labelled.	4. Measure the amount of liquid to the nearest ½ litre using a measuring cylinder
	5. Measure objects to the nearest cm using a moveable ruler	5. Read linear scales from 100 to 200. Main division - 10s, subdivisions marked but not labelled.	5. Read circular scales from 200 to 500. Main division - 10s, subdivisions marked but not labelled.(Extension)	
	6. Measure lines to the nearest ½ cm using a moveable ruler	6. Read linear scales from 200 to 500. Main division - 10s, subdivisions marked but not labelled.	6. Read circular scales from 0 to 400. Main division - 100s, subdivisions marked but not labelled. (Extension)	
	7. Measure objects to the nearest ½ cm using a moveable ruler			

## Numeracy Warm Up - Shape & Data

<b>Topic 3 - Symmetry 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Engage with line symmetry Create and complete a design with 1 line of symmetry</i>	<i>Engage with line symmetry Create and complete a design with 1 line of symmetry</i>	<i>Complete a single colour pattern of squares with one line of symmetry</i>	<i>Complete a multi-coloured pattern of squares with one line of symmetry</i>	<i>Pairs Task: Complete a multi- coloured pattern of squares with one line of symmetry</i>
1. Reflect a symmetrical design across the line of symmetry	1. Complete a simple symmetrical design by colouring in corresponding shape elements	1. Complete a simple pattern with 1 vertical line of symmetry	1. Complete a simple pattern with 1 vertical line of symmetry	1. Pairs Task: One person makes a pattern of one side of a butterfly, the other completes the pattern to make a line of symmetry. Line can be vertical, horizontal or oblique.
2. Create a symmetrical design by colouring in one side and reflecting it over the line of symmetry.	2. Complete a simple symmetrical design by colouring in corresponding shape elements	2. Complete a pattern with 1 vertical line of symmetry	2. Complete a pattern with 1 vertical line of symmetry	2. Pairs Task: One person makes a pattern of one side of a bug, the other completes the pattern to make a line of symmetry. Line can be vertical, horizontal or oblique.
3. Create a symmetrical design by colouring in one side and reflecting it over the line of symmetry.	3. Complete a symmetrical design by colouring in corresponding shape elements	3. Complete a simple pattern with 1 horizontal line of symmetry	3. Complete a simple pattern with 1 horizontal line of symmetry	3. Pairs Task: One person makes a pattern of squares, the other completes the design to make a line of symmetry. Line can be vertical, horizontal or oblique.
	4. Complete a symmetrical design by colouring in corresponding shape elements	4. Complete a pattern with 1 horizontal line of symmetry	4. Complete a pattern with 1 horizontal line of symmetry	
		5. Complete a simple pattern with 1 oblique line of symmetry	5. Complete a simple pattern with 1 oblique line of symmetry	
		6. Complete a pattern with 1 oblique line of symmetry	6. Complete a pattern with 1 oblique line of symmetry	
		7. Complete a complex pattern with 1 line of symmetry that can be selected by the student to be horizontal, vertical or oblique	7. Complete a complex pattern with 1 line of symmetry that can be selected by the student to be horizontal, vertical or oblique	

## Numeracy Warm Up - Shape & Data

<b>Topic 4 - Symmetry 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Complete a pattern of lines with one line of symmetry</i>	<i>Complete a pattern of lines with one line of symmetry</i>	<i>Distinguish between a pattern with and a pattern without line symmetry</i> <i>Attach a line of symmetry to a shape or pattern</i>	<i>Attach a line of symmetry to a complex single colour and multi-coloured pattern</i>	<i>Solve a word puzzle with line symmetry</i>
1. Complete a simple line pattern with one line of symmetry	1. Complete a complex line pattern with one line of symmetry	1. Identify which letters of the alphabet have line symmetry and which do not	1. Attach a line of symmetry to a complex single colour design	1. Puzzle: Complete words with a horizontal line of symmetry
2. Complete a simple line pattern with one line of symmetry	2. Complete a complex line pattern with one line of symmetry	2. Attach a line of symmetry to a design	2. Attach a line of symmetry to a complex multi-colour design	2. Puzzle: Complete words with a horizontal line of symmetry
3. Complete a simple line pattern with one line of symmetry	3. Complete a complex line pattern with one line of symmetry	3. Attach a line of symmetry to a design		3. Puzzle: Complete words with a horizontal line of symmetry
4. Complete a simple line pattern with one line of symmetry	4. Complete a complex line pattern with one line of symmetry	4. Attach a line of symmetry to a design		4. Puzzle: Complete words with a horizontal line of symmetry
5. Complete a simple line pattern with one line of symmetry	5. Complete a complex line pattern with one line of symmetry			5. Puzzle: Complete words with a horizontal line of symmetry
6. Complete a simple line pattern with one line of symmetry				6. Puzzle: Complete words with a vertical line of symmetry
				7. Puzzle: Complete words with a vertical line of symmetry
				8. Puzzle: Complete words with a vertical line of symmetry
				9. Puzzle: Complete words with a vertical line of symmetry
				10. Puzzle: Complete words with a vertical line of symmetry

## Numeracy Warm Up - Shape & Data

Topic 5 - 2D Shapes				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Distinguish between squares, circles and triangles by continuing simple patterns</i>	<i>Identify 2D shapes and their names: square, circle, triangle, rectangle, pentagon, hexagon</i>	<i>Identify shapes amongst other pictorial data Identify shapes with a restricted view</i>	<i>Identify the properties of 2D shapes</i>	<i>Identify the right angles in a picture Distinguish between right angles and non-right angles</i>
1. Add missing shapes to complete a pattern of squares and circles	1. Identify square, circle and triangle by colouring in each shape a different colour	1. Identify the squares in a picture	1. Identify properties of circles, triangles and squares with the images present	1. Identify the right angles in a square, rectangle, circle
2. Add missing shapes to complete a pattern of squares and circles	2. Identify rectangle, pentagon and hexagon by colouring in each shape a different colour	2. Identify the squares in a picture: squares at different orientations	2. Identify properties of rectangles, pentagons and hexagons with the images present	2. Identify the right angles in a picture
3. Add missing shapes to complete a pattern of squares and circles	3. Match 2D shape names with their image	3. Identify the circles in a picture	3. Identify properties of circles, squares, triangles, rectangles, pentagons and hexagons without the images present	3. Distinguish between right angles and non-right angles
4. Add missing shapes to complete a pattern of squares and circles	4. Memory Game: Shapes and elements	4. Identify the triangles in a picture: triangles at different orientations	4. Choose one property from a selection which matches a 2D shape	4. Balloons Game: Identify right angles
5. Add missing shapes to complete a pattern of squares, circles and triangles	5. Bees Game: Sort polygons	5. Identify and count shapes in a picture	5. List the properties of 2D shapes: corners and sides for square, rectangle, triangle, circle	5. Stars Game: Identify right angles
6. Add missing shapes to complete a pattern of squares, circles and triangles	6. Asteroids Game: Identify polygons	6. Identify and count shapes in a picture	6. List the properties of 2D shapes: corners and sides for pentagon, hexagon, arrow, irregular hexagon (chevron), and irregular pentagon	
7. Add missing shapes to complete a pattern of squares, circles and triangles		7. Identify and count shapes in a picture		
8. Add missing shapes to complete a pattern of squares, circles and triangles		8. Game: Identify a 2D shape with a restricted view.		

## Numeracy Warm Up - Shape & Data

<b>Topic 6 - Sorting Data 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Identify the odd one out in a set of 3 or more objects.</i>	<i>Sort pictorial data into groups</i>	<i>Sort numerical data into groups</i>	<i>Sort pictorial data into a table Retrieve data from a table</i>	<i>To identify the maximum, minimum and median of a data set by sorting</i>
1. Identify the odd one out in a set of 3 faces	1. Sort objects into 2 groups: plants and animals	1. Sort numbers into 2 groups: above 50 and below 50	1. Sort data in the form of coloured discs into a table	1. Identify the maximum, minimum and median in a data set, by sorting (5 data items)
2. Identify the odd one out in a set of 3 objects	2. Sort objects into 2 groups: line of symmetry and no line of symmetry	2. Sort numbers into 2 groups: even and odd	2. Sort data in the form of shapes into a table	2. Identify the maximum, minimum and median in a data set, by sorting (5 data items)
3. Identify the odd one out in a set of 4 faces	3. Sort letters into 2 groups: line of symmetry and no line of symmetry	3. Sort numbers into 3 groups: below 20, between 20 and 40, above 40	3. Sort data in the form of mathematical symbols into a table	3. Identify the maximum, minimum and median in a data set, by sorting (7 data items)
4. Identify the odd one out in a set of 4 objects	4. Sort shapes into 2 groups: 2D shapes and 3D shapes		4. Sort data in the form of playing cards into a table	4. Identify the maximum, minimum and median in a data set, by sorting (7 data items)
5. Identify the odd one out in a set of 5 objects	5. Sort shapes into 2 groups: All Straight Side and not all Sides Straight		5. Answer questions from a table about a single item of data: 3 columns: 3 rows	5. Identify the maximum, minimum and median in a data set, by sorting (9 data items)
			6. Answer questions from a table about a single item of data: 4 columns: 3 rows	6. Identify the maximum, minimum and median in a data set, by sorting (9 data items)
			7. Answer questions from a table about a single item of data: 4 columns: 4 rows	7. Identify the maximum, minimum and median in a data set, by sorting (11 data items)
			8. Answer questions from a table about a 2 items of data: 4 columns: 5 rows (Extension)	8. Identify the maximum, minimum and median in a data set, by sorting (11 data items)

## Numeracy Warm Up - Shape & Data

<b>Topic 7 - Sorting Data 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Sort pictorial data into a Carroll diagram</i> <i>Sort numerical data into a Carroll diagram</i>	<i>Interpret a Carroll diagram holding pictorial data</i> <i>Interpret a Carroll diagram holding numerical data</i>	<i>Sort pictorial data into a Venn diagram</i>	<i>Sort numerical data into a Venn diagram</i>	<i>Interpret a Venn diagram holding pictorial data</i> <i>Interpret a Venn diagram holding numerical data</i>
1. Sort pictorial data into a Carroll Diagram	1. Interpret a Carroll Diagram holding pictorial data	1. Sort pictorial data into a Venn Diagram	1. Sort numerical data into a Venn Diagram	1. Interpret a Venn diagram holding pictorial data
2. Sort pictorial data into a Carroll diagram	2. Interpret a Carroll diagram holding pictorial data	2. Sort pictorial data into a Venn diagram	2. Sort numerical data into a Venn diagram	2. Interpret a Venn diagram holding pictorial data
3. Sort pictorial data into a Carroll diagram	3. Interpret a Carroll diagram holding pictorial data	3. Sort pictorial data into a Venn diagram		3. Interpret a Venn diagram holding pictorial data
4. Sort numerical data into a Carroll diagram	4. Interpret a Carroll diagram holding numerical data			4. Interpret a Venn diagram holding numerical data
5. Sort numerical data into a Carroll diagram	5. Interpret a Carroll diagram holding numerical data			5. Interpret a Venn diagram holding numerical data

## Numeracy Warm Up - Shape & Data

<b>Topic 8 - Shape &amp; Data Words 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in words</i>	<i>Quiz: Mixed questions on Topics 1 to 7</i>
1. Match distance terms to their definitions	1. Identify units of measure	1. Complete crossword clues on units of measure	1. Complete hidden number words by guessing letters: Hangman	1. Answer mixed questions on topics 1 to 7
2. Match capacity and weight terms to their definitions	2. Identify measuring devices	2. Complete crossword clues on measurement terms		2. Answer mixed questions on topics 1 to 7 (Extension)
3. Match property comparison terms to their definitions	3. Identify measurement terms	3. Complete crossword clues on property comparison terms		
4. Match property comparison terms to their definitions	4. Identify property comparison terms	4. Complete crossword clues on property comparison terms		
5. Match measurement terms to their definitions	5. Identify property comparison terms	5. Complete crossword clues on 2D shape terms		
6. Match measurement terms to their definitions	6. Identify 2D shape names	6. Complete crossword clues on mixed numeracy definitions		
7. Match shape terms to their definitions	7. Identify 2D shape terms			
8. Match shape terms to their definitions	8. Identify mixed numeracy names			
9. Match mixed numeracy terms to their definitions				

## Numeracy Warm Up - Shape & Data

Topic 9 - Time 1				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Sort familiar everyday activities into sequence</i>	<i>Sort the days of the week, months of the year and seasons</i>	<i>Engage with the numbers on a clock face Read the time to the hour and half hour Set the time on a clock</i>	<i>Engage with language of time Calculate time interval end points: Identify an hour earlier or later than whole hour or half past times</i>	<i>Read the time to quarter past and quarter to the hour Set the time on a clock by arranging the hands to show the correct time</i>
1. Sort tasks involving everyday activities	1. Sort the seasons	1. Assemble the numbers on a clock face	1. Identify the time an hour earlier than shown on a clock for whole hour times	1. Match quarter past times with clocks
2. Sort tasks involving everyday activities	2. Solve sequence questions involving seasons	2. Match whole hour times with clocks faces	2. Identify the time an hour later than shown on a clock for whole hour times	2. Enter the correct time shown on clock for quarter past times
3. Sort tasks involving everyday activities	3. Sort the days of the week	3. Match whole hour times with clock faces	3. Identify the time an hour earlier or later than shown on a clock for whole hour times	3. Drag the hour hand to the correct place on quarter past times
4. Sort tasks involving everyday activities	4. Write the days of the week in order	4. Enter the correct time shown on a clock for whole hour times	4. Identify the time an hour earlier than shown on a clock for half past times	4. Drag the minute hand to the correct place on quarter past times
	5. Solve sequence questions involving the days of the week	5. Drag the hour hand to the correct place on whole hour times	5. Identify the time an hour later than shown on a clock for half past times	5. Match quarter to times with clocks
	6. Solve sequence questions involving the days of the week. (Extension)	6. Drag the minute hand to the correct place on whole hour times	6. Identify the time an hour earlier or later than shown on a clock for half past times	6. Enter the correct time shown on clock for quarter to times
	7. Sort the months of the year	7. Match half past times with clock faces		7. Drag the hour hand to the correct place on quarter to times
	8. Solve sequence questions involving the months of the year	8. Enter the correct time shown on clock for half past times		8. Drag the minute hand to the correct place on quarter to times
		9. Drag the hour hand to the correct place on half past times		9. Enter the correct time shown on clock for quarter past times and quarter to times
		10. Drag the minute hand to the correct place on half past times		10. Drag both hands to the correct place on quarter to times and quarter past times

## Numeracy Warm Up - Shape & Data

Topic 10 - Time 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Engage with language of time Calculate time interval end points that cross the hour: Identify an hour or half hour earlier or later than whole hour, half past times, quarter past and quarter to times</i>	<i>Read a 12 hr digital clock to the hour and half past</i>	<i>Read a 12 hr digital clock to quarter past and quarter to</i>	<i>Read a 12 hr clock, digital or analogue, to the nearest 5 minutes</i>	<i>Use units of time and know relationships between them: seconds, minutes, hours, days in week/fortnight, weeks/months in a year</i>
1. Identify the time an hour earlier or later than shown on a clock for quarter past times	1. Match whole hour analogue times to digital time	1. Match quarter past analogue times to digital times	1. Match 5, 10, 15, 20, 25 past analogue times to digital times	1. Match correct number to relationships
2. Identify the time an hour earlier or later than shown on a clock for quarter to times	2. Read whole hour analogue times and complete digital form	2. Read quarter past hour analogue times and complete digital form	2. Match 5, 10, 15, 20, 25 to analogue times to digital times	2. Complete a table of time equivalences
3. Identify the an hour earlier or later than shown on a clock for quarter past times, quarter to times, half past times and full hour times	3. Read whole hour digital times and complete analogue times	3. Read quarter past digital times and complete analogue times	3. Read 5, 10, 15, 20, 25 past hour analogue times and complete digital form	3. Memory game: time equivalences
4. Identify the time half hour earlier or later than shown on a clock for whole hour times	4. Match half hour analogue times to digital time	4. Match quarter to analogue times to digital time	4. Read 5, 10, 15, 20, 25 to hour analogue times and complete digital form	
5. Identify the time half hour earlier or later than shown on a clock for half hour times	5. Read half hour analogue times and complete digital form	5. Read quarter to analogue times and complete digital form	5. Read 5, 10, 15, 20, 25 past digital times and complete analogue times	
6. Identify the time half hour earlier or later than shown on a clock for whole, half past, quarter past and quarter to times	6. Read half hour digital times and complete analogue times	6. Read quarter to digital times and complete analogue times	6. Read 5, 10, 15, 20, 25 to digital times and complete analogue times	
	7. Memory game with clock faces and digital times for hour and half hour times	7. Memory game with clock faces and digital times for quarter to and quarter past times	7. Memory game with clock faces and digital times for 5, 10, 15, 20, 25 past and to times	

## Numeracy Warm Up - Shape & Data

<b>Topic 11 - Position &amp; Movement 1</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Understand, use and identify relative position: to the left of, to the right of, above, below, underneath, under</i>	<i>Understand, use and identify relative position: in the centre of, to the left of, to the right of, under, over, below, above</i>	<i>Follow and give instructions to move an object along a grid to a given position</i>	<i>Engage with the concept of turn Identify objects that contain turning points or lines of turn</i>	<i>Understand and use whole, half and quarter turns</i>
1. Identify the relative position of an object: books in numerical order	1. Move an object to a position relative to another object	1. Follow single step directions to move, using left, right, up down	1. Identify objects that turn at a point or along a line	1. Know the meaning of full turn, half turn and quarter turn.
2. Identify the relative position of an object: books in random order	2. Move an object to a position relative to another object:	2. Follow single step directions to move, using forwards and backwards	2. Identify objects that turn at a point or along a line	2. Move an object by turning it a whole turn, half turn and quarter turn starting from the vertical position
3. Position an object according to instructions	3. Move an object to a position relative to another object	3. Follow two step directions to move, using left, right, up down	3. Identify the turning point, e.g. of a pair of scissors	3. Move an object by turning it a whole turn, half turn and quarter turn starting from any position
4. Enter an object according to instructions	4. Move an object to a position relative to another object	4. Follow three step directions to move, using left, right, up down		4. Move an object by turning it a whole turn, half turn and quarter turn clockwise or anticlockwise starting from the vertical position
	5. Move an object to a position relative to another object	5. Give single step directions to move, using <i>left, right, up down</i>		5. Move an object by turning it a whole turn, half turn and quarter turn clockwise or anticlockwise starting from any position
		6. Give two step directions to move using <i>left, right, up down</i>		6. Identify new direction after a whole turn, half turn or quarter turn starting from vertical position
		7. Give two step directions to move, using <i>left, right, up down</i>		7. Identify new direction after a whole turn, half turn or quarter turn starting from any position
				8. Enrichment Task: Give directions to leave the maze using left, right, up and down

## Numeracy Warm Up - Shape & Data

<b>Topic 12 - Position &amp; Movement 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Plot coordinates in the 1<sup>st</sup> quadrant</i>	<i>Read coordinates in the 1<sup>st</sup> quadrant</i>	<i>Plot and read coordinates in the 1<sup>st</sup> quadrant in a game situation</i>	<i>Engage with the face of a compass and compass directions</i>	<i>Use the 4 compass directions to locate objects and describe relative position</i>
1. Plot coordinates in the first quadrant: 5 x 5 grid	1. Read coordinates in the first quadrant	1. Plot and read coordinates in a game situation	1. Enter the directions on a compass	1. Locate an object given its compass direction
2. Plot coordinates in the first quadrant: 5 x 5 grid	2. Read coordinates in the first quadrant	2. Plot and read coordinates in a game situation	2. Assemble the elements on a compass face	2. Identify the compass direction of an object
3. Plot coordinates in the first quadrant: 8 x 8 grid	3. Read coordinates in the first quadrant	3. Plot and read coordinates in a game situation		3. Identify new direction after a whole turn, half turn or quarter turn starting from North facing position
4. Plot coordinates in the first quadrant: 8 x 8 grid	4. Read coordinates in the first quadrant	4. Plot and read coordinates in a game situation		4. Identify new direction after a whole turn, half turn or quarter turn starting from South, East or West facing position
				5. Enrichment Task: Give directions to leave the maze using North, South, East and West

## Numeracy Warm Up - Shape & Data

Topic 13 - 3D Shapes				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Identify 3D solids and their names: cube, cuboid, cone, sphere, cylinder</i>	<i>Engage with the range and variety of different 2D representations of 3D solids</i>	<i>Visualise in 3D by counting cubes in 3D shapes</i>	<i>Distinguish between 2D shapes and 3D solids Relate real life objects to their basic mathematical shape</i>	<i>Identify the properties of 3D solids</i>
1. Identify 3D solids by colouring in each shape a different colour: cube, sphere, cone	1. Engage with a cube by manipulating an image to show the range and variety of different views of the solid	1. Visualise in 3D by counting cubes in shapes	1. Sort 2D shapes and 3D solids into separate groups	1. Identify the properties of 3D solid
2. Identify 3D solids by colouring in each shape a different colour: cuboid, pyramid, cylinder	2. Engage with a cuboid by manipulating an image to show the range and variety of different views of the solid	2. Visualise in 3D by counting cubes in shapes	2. Identify the basic mathematical 2D shape or 3D solid in everyday images	2. Choose one property from a selection which matches a 3D solid
3. Match 3D solid names with an image: cube, sphere, cone, cuboid, pyramid, cylinder	3. Engage with a cone by manipulating an image to show the range and variety of different views of the solid	3. Visualise in 3D by counting cubes in shapes		3. List the properties of 3D solids: corners and edges for cube, cone and cylinder
	4. Engage with a cone by manipulating an image to show the range and variety of different views of the solid	4. Visualise in 3D by counting cubes in shapes (Extension)		4. List the properties of 3D solids: corners and edges for sphere, cuboid, pyramid
	5. Engage with a square pyramid by manipulating an image to show the range and variety of different views of the solid			5. Sort 3D solids on a Venn Diagram according to curved face or flat face properties
	6. Engage with a triangular prism by manipulating an image to show the range and variety of different views of the solid			

## Numeracy Warm Up - Shape & Data

<b>Topic 14 - Tally Charts &amp; Pictograms</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Sort data into a tally chart Complete a tally chart with missing information.</i>	<i>Interpret a tally chart</i>	<i>Interpret a pictogram with one icon representing one data item</i>	<i>Interpret a pictogram with one icon representing 2, 5 or 10 data items</i>	<i>Construct a pictogram</i>
1. Sort data in the form of coloured discs into a tally chart	1. Interpret a tally chart by answering questions	1. Interpret a pictogram: each symbol represents 1 item: simple questions	1. Interpret a pictogram: each symbol represents 2 items: simple questions	1. Complete a pictogram using a table of data: each symbol represents 1 item
2. Sort data in the form of coloured squares into a tally chart	2. Interpret a tally chart by answering questions	2. Interpret a pictogram: each symbol represents 1 item: comparison questions	2. Interpret a pictogram: each symbol represents 2 items: comparison questions	2. Complete a pictogram using a table of data: each symbol represents 1 item
3. Sort data into a tally chart and complete the tally chart by entering the totals	3. Interpret a tally chart by answering comparison questions	3. Interpret a pictogram: each symbol represents 1 item: comparison questions	3. Interpret a pictogram: each symbol represents 10 items: simple questions	3. Complete a pictogram using a table of data: each symbol represents 2 items
4. Sort data into a tally chart and complete the tally chart by entering the totals	4. Interpret a tally chart by answering comparison questions		4. Interpret a pictogram: each symbol represents 10 items: comparison questions	4. Complete a pictogram using a table of data: each symbol represents 2 items
5. Complete a tally chart by entering numbers in the totals column: 4 rows			5. Interpret a pictogram: each symbol represents 5 items: simple questions	5. Complete a pictogram using a table of data: each symbol represents 10 items
6. Complete a tally chart by entering numbers in the totals column: 5 rows			6. Interpret a pictogram: each symbol represents 5 items: comparison questions	6. Complete a pictogram using a table of data: each symbol represents 10 items
				7. Complete a pictogram using a table of data: each symbol represents 5 items
				8. Complete a pictogram using a table of data: each symbol represents 5 items

## Numeracy Warm Up - Shape & Data

<b>Topic 15 - Bar Charts</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Read and interpret a vertical bar chart with vertical axis having a scale of 1 increment: 4 categories</i>	<i>Interpret a vertical bar chart with vertical axis having a scale of 2, 5 or 10 increments: 5 categories</i>	<i>Construct a vertical bar chart: vertical scale in increments of 1: 5 categories</i>	<i>Construct a vertical bar chart with vertical scale in increments of 2, 5 and 10: 5 categories</i>	<i>Interpret and construct a vertical bar chart with vertical scale in increments of 1, 2, 5 and 10: 5 categories</i>
1. Read a bar chart: scale 1 to 5	1. Interpret a bar: scale of increments 2 on the vertical axis	1. Construct a bar chart: scale of increments 1 on the vertical axis: scale 1 to 5	1. Construct a bar chart: scale of increments 2 on the vertical axis	1. Interpret a horizontal bar chart: scale of increments 1 on the horizontal axis
2. Read a bar chart: scale 1 to 5	2. Interpret a bar chart: scale of increments 2 on the vertical axis	2. Construct a bar chart: scale of increments 1 on the vertical axis: scale 1 to 5	2. Construct a bar chart: scale of increments 2 on the vertical axis	2. Interpret a horizontal bar chart: scale of increments 2 on the horizontal axis
3. Read a bar chart: scale 1 to 10	3. Interpret a bar chart: scale of increments 10 on the vertical axis	3. Construct a bar chart: scale of increments 1 on the vertical axis: scale 1 to 10	3. Construct a bar chart: scale of increments 10 on the vertical axis	3. Interpret a horizontal bar chart: scale of increments 10 on the horizontal axis
4. Read a bar chart: scale 1 to 10	4. Interpret a bar chart: scale of increments 10 on the vertical axis	4. Construct a bar chart: scale of increments 1 on the vertical axis: scale 1 to 10	4. Construct a bar chart: scale of increments 10 on the vertical axis	4. Interpret a horizontal bar chart: scale of increments 5 on the horizontal axis
5. Interpret a bar chart: : scale 1 to 5: comparative questions	5. Interpret a bar chart: scale of increments 5 on the vertical axis		5. Construct a bar chart: scale of increments 5 on the vertical axis	5. Construct a horizontal bar chart: scale of increments 1 on the horizontal axis
6. Interpret a bar chart: : scale 1 to 5: comparative questions	6. Interpret a bar chart: scale of increments 5 on the vertical axis		6. Construct a bar chart: scale of increments 5 on the vertical axis	6. Construct a horizontal bar chart: scale of increments 2 on the horizontal axis
7. Interpret a bar chart: : scale 1 to 10: comparative questions				7. Construct a horizontal bar chart: scale of increments 10 on the horizontal axis
8. Interpret a bar chart: : scale 1 to 10: comparative questions				8. Construct a horizontal bar chart: scale of increments 5 on the horizontal axis

## Numeracy Warm Up - Shape & Data

<b>Topic 16 - Shape &amp; Data Words 2</b>				
<b>Target 1</b>	<b>Target 2</b>	<b>Target 3</b>	<b>Target 4</b>	<b>Target 5</b>
<i>Sort addition and subtraction vocabulary Match numeracy terms to their definitions</i>	<i>Work with the language of number through wordsearch puzzles</i>	<i>Work with the language of number through crossword puzzles</i>	<i>Engage with the language of number by guessing missing letters in number words</i>	<i>Quiz: Mixed questions on Topics 1 to 7</i>
1. Match numeracy terms to their definitions	1. Identify time intervals	1. Complete crossword clues on time periods	1. Complete hidden number words by guessing letters	1. Answer mixed questions on topics 1 to 7
2. Match numeracy terms to their definitions	2. Identify the months of the year	2. Complete crossword clues on position and movement		2. Answer mixed questions on topics 1 to 7 (Extension)
3. Match numeracy terms to their definitions	3. Identify the days of the week	3. Complete crossword clues on 3D shapes		
4. Match numeracy terms to their definitions	4. Identify some clock times	4. Complete crossword clues on numeracy definitions		
5. Match numeracy terms to their definitions	5. Identify time terms	5. Complete crossword clues on numeracy definitions		
6. Match numeracy terms to their definitions	6. Identify relative position terms			
7. Match numeracy terms to their definitions	7. Identify relative position terms			
8. Match numeracy terms to their definitions	8. Identify direction terms			
	9. Identify 3D shape terms			
	10. Identify data terms			