

# Numbers : Contents

Adult Numeracy  
Core Curriculum  
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N1.1	Numbers ..... Number words from zero to ten.	N1/E1.2
N1.2	Numbers ..... Number words from ten to twenty.	N1/E2.2
N1.3	Numbers ..... Counting in tens.	N1/E2.2
N1.4	Numbers up to 100 ..... Number words from 20 to 100.	N1/E2.2
N1.5	Tens and Units..... Counting groups of ten.	N1/E2.2
N1.6	Tens and Units..... Diagrams depicting numbers up to 100.	N1/E2.2
N1.7	Tens and Units..... Place value, understanding tens & units digits.	N1/E2.2
N1.8	Tens and Units..... Comparing size, ordering numbers.	N1/E2.2
N1.9	Rounding Off..... Rounding 2 digit numbers to the nearest ten.	N1/E2.6
N1.10	Hundreds, Tens and Units .... Diagrams showing 3 digit numbers.	N1/E3.1
N1.11	Hundreds, Tens and Units .... Reading and writing numbers	N1/E3.1
N1.12	Hundreds, Tens and Units .... Place value.	N1/E3.1
N1.13	Larger or Smaller ? ..... Putting 3 digit numbers in order.	N1/E3.1
N1.14	Counting ..... Counting in ones, tens and hundreds.	N1/E3.1
N1.15	Rounding Off..... Rounding 3 digit numbers to the nearest ten.	N1/E3.7
N1.16	Rounding Off to the Nearest Hundred..... 3 digit numbers.	N1/E3.7
N1.17	Thousands ..... Reading and writing 4 digit numbers.	N1/L1.1
N1.18	Thousands ..... Place value.	N1/L1.1
N1.19	Thousands ..... Extra practice, numbers with zeros.	N1/L1.1
N1.20	Thousands ..... Ordering 4 digit numbers.	N1/L1.1
N1.21	Counting ..... Counting in steps of 1, 10, 100, 1000.	N1/L1.3
N1.22	Rounding Off..... 4 digit numbers to nearest 10, 100 or 1000.	N1/L1.8
N1.23	Tens of Thousands ..... Reading and writing 5 digit numbers.	N1/L1.1
N1.24	Hundreds of Thousands ..... Reading and writing 6 digit numbers.	N1/L1.1
N1.25	Thousands ..... Mixed questions about large numbers.	N1/L1.1
N1.26	Rounding Off..... Rounding large numbers to different accuracies.	N1/L1.8
N1.27	Significant Figures ..... Rounding to 1 or 2 significant figures.	N1/L1.8
N1.28	Millions ..... Reading and writing 7 digit numbers.	N1/L1.1
N1.29	Millions ..... Further questions on numbers involving millions.	N1/L1.1
N1.30	Millions and Billions ..... Place value for very large numbers.	N1/L2.1
Rev1	Numbers Review . ..... Numbers below 999.	N1/E3.1
Rev2	Numbers Review . ..... Four digit numbers.	N1/L1.1
Rev3	Large Numbers Review ..... Numbers above 9999.	N1/L1.1
Place Value & Digits page ..... An extra resource for number work.		
Number Cards ..... Copy, cut out and use for reading, ordering numbers etc.		

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N2.1	Number Order Words .. ..... Ordinal numbers, first to tenth.	N1/E1.3
N2.2	Number Order Words .. ..... Ordinal numbers up to one hundredth.	N1/E2.2
N2.3	Odd and Even Numbers .... Basic idea.	N1/E3.1
N2.4	Odd and Even Numbers .... Identifying. Using their properties.	N1/L2.2
N2.5	More or less ..... Vocabulary : more & less than, greater, between.	N1/E1.3
N2.6	More or Less Than ... Inequality signs < and >	N1/L1.1
N2.7	Factors ..... Finding factors and HCFs.	N1/L1.6
N2.8	Prime Numbers ..... Identifying prime numbers up to 100.	N1/L2.2
N2.9	Square Numbers ..... Introduction to square numbers.	N1/L1.6
N2.10	Squaring Numbers .. Using a calculator to calculate squares.	N1/L1.6
N2.11	Square Roots ..... Definition of square roots. Area of square.	
N2.12	Calculating Square Roots ..... that may need rounding off.	
N2.13	Cube Numbers ... Counting blocks in cubes. Cubing numbers.	
N2.14	Cube Roots ..... Investigate cube roots on a calculator.	
N2.15	Powers ..... Definition of powers. Practice using the notation.	
N2.16	Calculating Powers... Problems involving index notation.	
N2.17	Below Zero ..... Reading positive and negative temperatures.	N1/L1.2
N2.18	Temperature ..... Understanding temperatures.	N1/L1.2
N2.19	Up and Down ..... Calculating temperature changes.	N1/L2.5
N2.20	Temperature Changes .... How has the temperature changed ?	N1/L2.5
N2.21	Temperature Quiz .... Word problems involving larger numbers.	N1/L2.5
N2.22	Positive and Negative Numbers ..... Introduction. Ordering.	N1/L2.1
N2.23	Adding Positive Numbers ..... Using a number line.	
N2.24	Subtracting Positive Numbers ..... Starting above and below zero.	
N2.25	Counting Up and Down ..... Add & subtract lots of numbers.	
N2.26	Adding Negative Numbers ... ..... is the same as subtracting.	
N2.27	Subtracting Negative Numbers .... is the same as adding.	
N2.28	Pluses and Minuses .... Mixed questions to test understanding.	
N2.29	Multiplying ..... by negative numbers.	
N2.30	Dividing ..... Divisions involving negative numbers.	

## Extra Resources

Thermometers ..... A sheet of blank thermometers for extra practice.

Number Lines ..... To use in calculations.

Number Strips ..... To use with the number lines.

# Arithmetic Basics : Contents

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## Entry Level 1

AB1	How Many ? ...Count objects. Write the number and number word.	N1/E1.1&2
AB2	Draw .....Draw the correct number of things. Write the number.	N1/E1.1&2
AB3	Totals .....Count the <b>total</b> number of items in two small groups.	N1/E1.4
AB4	Add .....Add together two sets of things.	N1/E1.4
AB5	Adding .....More additions. Vocabulary - 'plus' and 'sum'.	N1/E1.4
AB6	The Total is Ten ..... Number bonds to ten.	N1/E1.4
AB7	Same Answers ..... 6 + 2 is the same as 2 + 6. Adding 3 numbers.	N1/E1.4
AB8	Taking Away ..... Practical examples of simple subtraction.	N1/E1.5&6
AB9	How Many Left ? .... Drawing pictures to illustrate subtractions.	N1/E1.5
AB10	More Than ..... Comparing the number of objects in two groups.	N1/E1.5&3
AB11	Can You Do It ? ..... Subtraction practice. 3 - 8 can't be done.	N1/E1.5
AB12	Difference ..... Working out the <b>difference</b> between two numbers.	N1/E1.5
AB13	Connections ...3 + 2 = 5, 2 + 3 = 5, 5 - 2 = 3 and 5 - 3 = 2.	N1/E1.4&5
AB14	Puzzles ..... Word problems using addition and subtraction.	N1/E1.6

## Entry Level 2

AB15	Adding ..... Single digit numbers with totals less than 10.	N1/E2.4
AB16	Taking Away ..... Subtraction involving numbers 10 and below.	N1/E2.4
AB17	Up to Twenty ..... Straightforward addition of numbers up to 20.	N1/E2.3
AB18	Subtractions ..... Easy subtractions involving numbers up to 20.	N1/E2.3
AB19	Make it up to Ten ..... Splitting numbers e.g. + 5 = + 2 + 3	N1/E2.3
AB20	Subtraction Tricks .... Using different methods	N1/E2.3
AB21	Tens ..... Adding and subtracting numbers in round tens.	N1/E2.3
AB22	Counting in Tens ..... Counting up & down from a starting number.	N1/E2.1
AB23	Adding Units or Tens ..... Using place value. Column addition.	N1/E2.3
AB24	Taking Away Units or Tens .... Using place value to explain.	N1/E2.3
AB25	Adding Tens and Units ..... Counting diagrams to add .	N1/E2.3
AB26	Addition Practice ..... No 'carrying'. Vocabulary.	N1/E2.3
AB27	Subtracting Tens and Units ..... Using pictures to subtract.	N1/E2.3
AB28	Subtraction Practice . ..... No 'borrowing'. Vocabulary.	N1/E2.3
AB29	Add or Subtract ..... Word problems. Writing down calculations.	N1/E2.7&3
AB30	Word Puzzles ..... Choosing which operation to use.	N1/E2.7&3

N1/E1.7 and N1/E2.8 can be assessed by students checking their work with a calculator.

**Extra Resource** Use this to create your own e.g. worksheets for extra practice.

Add 9	
7	16
5	

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Ar1.1	Making Whole Tens .... Finding the missing number in $57 + ? = 60$ .	N1/E2.3
Ar1.2	Take it Away ! ... .. Subtracting by splitting numbers $53 - 8$ .	N1/E2.3
Ar1.3	Counting Up .. ... from 32 to 90 for example. 100 totals.	N1/E2.3
Ar1.4	Make It Easier !. ... Add 9 by adding 10 then taking 1.	N1/E2.3
Ar1.5	Making Subtraction Easier ! .. .... Using the above tricks in reverse.	N1/E2.3
Ar1.6	Ways to Add.. ... Totals that require carrying. Mental and written.	N1/E2.3
Ar1.7	Subtracting in Steps .. .....taking 65 by taking 60 then 5.	N1/E2.3
Ar1.8	Borrowing ..... .. Formal method of changing one ten to ten units.	N1/E2.3
Ar1.9	Rough Answers. ... Rounding numbers to estimate answers.	N1/E2.6
Ar1.10	How Many ? .. ... Addition and subtraction word problems.	N1/E2.7&3

## Entry Level 3

Ar1.11	Adding over 100 ... Adding 2 digit numbers with totals more than 100.	N1/E3.2
Ar1.12	Counting Up and Down .....in tens and hundreds.	N1/E3.1
Ar1.13	Hundreds, Tens and Units .Adding by thinking about place value.	N1/E3.2&1
Ar1.14	Hundreds, Tens and Units .Using place value to do subtractions.	N1/E3.2&1
Ar1.15	Adding in your Head.. Mental calculations - making up full hundreds.	N1/E3.2
Ar1.16	Adding in Columns ... Column additions, 3 digit numbers.	N1/E3.2
Ar1.17	Carrying.....Methods for carrying in more complicated additions.	N1/E3.2
Ar1.18	Subtracting in Your Head ... ..e.g. $400 - 2$ , $230 - 50$ .	N1/E3.2
Ar1.19	Arithmetic Practice ... Counting up or down in tens or ones.	N1/E3.2
Ar1.20	Subtracting in Columns .....Aligning numbers correctly.	N1/E3.2
Ar1.21	Subtracting in Steps .. Doing difficult subtractions without borrowing.	N1/E3.2
Ar1.22	Borrowing ..... .. 'Standard' method for written subtractions.	N1/E3.2
Ar1.23	Borrowing Twice ... .. Coping with complicated borrowing.	N1/E3.2
Ar1.24	Estimating Answers... by rounding to nearest 10 or 100.	N1/E3.8
Ar1.25	What's the Answer ? . Problems requiring straightforward calculations.	N1/E3.9&2
Ar1.26	Work it Out ! .. ... .. More demanding problems.	N1/E3.9&2
Ar1.27	Work it Out Roughly .. Problems requiring rough and exact answers.	N1/E3.8&2

## Level One

Ar1.28	Over One Thousand.... Mental calculations with larger numbers.	N1/L1.3
Ar1.29	Written Additions... .. Aligning numbers in place value columns.	N1/L1.3
Ar1.30	Written Subtractions.... Practise subtracting larger numbers.	N1/L1.3
Ar1.31	Arithmetic Puzzles. .... Word problems with numbers over 1000.	N1/L1.10
100 Square .....		Use this extra resource to reinforce work.

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## Entry Level 2

Ar2.1	Lots of .....Counting in groups. Writing multiplications.	N1/E2.5
Ar2.2	Counting up in Steps.....Multiplication as repeated addition.	N1/E2.5
Ar2.3	Changing Round ..... $5 \times 3$ has the same answer as $3 \times 5$ .	N1/E2.5
Ar2.4	Multiplying .....Vocabulary. Finding missing numbers.	N1/E2.5
Ar2.5	Doubling .....Practise the 2 times table. Double 2-digit numbers.	N1/E2.5
Ar2.6	Tens and Fives ..Connections between 10 times and 5 times tables.	N1/E2.5
Ar2.7	Multiplication Puzzles.....Problems requiring simple multiplications.	N1/E2.7&5

## Entry Level 3 ( School National Curriculum Level 3 )

Ar2.8	Learn the 3 Times Table .... Practice in learning multiples of 3.	N1/E3.5
Ar2.9	Dividing.....Putting objects into groups to illustrate division.	N1/E3.6
Ar2.10	Dividing.....Division as the inverse of multiplication.	N1/E3.6
Ar2.11	Remainders .....Remainders as left over amounts after grouping.	N1/E3.6
Ar2.12	Multiplying by 4 ..... doubling twice. Learning the 4 times table.	N1/E3.5
Ar2.13	Ten Times Larger or Smaller .. Multiplying and dividing by 10.	N1/L1.4
Ar2.14	Multiplying by 5 ..... 5 times table. $\times 10$ then $\div 2$ to multiply by 5.	N1/E3.5&4
Ar2.15	Multiplying Larger Numbers .. $4 \times 7 = 28$ means $4 \times 70 = 280$ .	N1/E3.4&6
Ar2.16	Split it Up !.....Decomposition $7 \times 15 = 7 \times 10 + 7 \times 5$	N1/E3.4&5
Ar2.17	Writing Multiplications.... Formal method for written calculations.	N1/E3.4
Ar2.18	Writing Divisions..... Formal method for divisions. Remainders.	N1/E3.6
Ar2.19	Sharing ..... Division as a way of sharing amounts. Word problems.	N1/E3.6
Ar2.20	Remainder Puzzles .. Situations where numbers don't divide exactly.	N1/E3.6
Ar2.21	Multiply or Divide ?... Problems to practise choosing the operation.	N1/E3.9
Ar2.22	Rough Answers ..... Rounding numbers to estimate answers.	N1/E3.8

## Level One.....( School National Curriculum Level 4 )

Ar2.23	Practise the 6 Times Table . ..... using a variety of questions.	N1/L1.5
Ar2.24	The 9 Times Table Made Easy .... using patterns and finger method.	N1/L1.5
Ar2.25	100 Times Larger or Smaller ..... Multiplying and dividing by 100.	N1/L1.4
Ar2.26	1000 Times Larger or Smaller..... Multiplying and dividing by 1000.	N1/L1.4
Ar2.27	Using the 8 Times Table .... Working out $7 \times 800$ or $70 \times 80$ etc.	N1/L1.5&3
Ar2.28	Multiplying by ..7 ..... Harder examples of decomposition.	N1/L1.5&3
Ar2.29	Estimating Rough Answers .. Deciding if answers are correct or not.	N1/L1.9
Ar2.30	Multiplication Practice.... Formal written method. Tables practice.	N1/L1.3
Ar2.31	Division Practice..... Divisions with increasing levels of difficulty.	N1/L1.3&5
Ar2.32	Word Problems. .... Calculations in real-life situations.	N1/L1.10
Ar2.33	Building up Multiplications .... Multiplying two 2-digit numbers.	N1/L1.3&5
Ar2.34	Building up Divisions .... informal method using multiplication.	N1/L1.3&5
Ar2.35	Calculating Remainders ..... using a calculator.	N1/L1

## Extra Resources

Place Value Board

Number lines

Multiplication Table

# Fraction Basics : Contents

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FB1	Splitting in Half .....	Dividing shapes into two equal parts.	N2/E2.2
FB2	Halves and Wholes ..	Relationships between whole objects and halves.	N2/E2.1
FB3	Finding Half .....	Using diagrams to halve small numbers.	N2/E2.2
FB4	Halves.....	Halving two digit numbers.	N2/E2.2
FB5	Quarters.....	Splitting shapes into four parts. Counting quarters.	N2/E2.1
FB6	Finding Quarters.....	Using diagrams to split small groups into quarters.	N2/E2.2
FB7	Thirds.....	Splitting shapes into thirds.	N2/E3.1
FB8	Fractions.....	What fraction of each shape is shaded ?	N2/E3.1
FB9	Eighths.....	Relating eighths to halves and quarters.	N2/E3.1&2
FB10	Halving Numbers.....	Splitting two digit numbers into two equal parts.	N2/E3.6
FB11	Sharing Equally .....	Dividing numbers to split them into equal parts.	N2/E3.6
FB12	More Halves .....	Mixed numbers involving halves.	N2/L1.1
FB13	Quarters.....	Mixed numbers involving quarters.	N2/L1.1
FB14	Halves and Quarters	Calculating $\frac{1}{4}$ of a number by halving twice.	N2/L1.2
FB15	Working out Half.....	Dividing by two to halve numbers.	N1/L1.3
FB16	Finding Quarters.....	Working out $\frac{1}{4}$ and $\frac{3}{4}$ of small numbers.	N2/L1.2
FB17	Quarters Quiz .....	Word problems. Finding $\frac{1}{4}$ and $\frac{3}{4}$ of numbers.	N2/L1.2
FB18	Finding Thirds.....	Finding one third or two thirds of numbers.	N2/L1.2
FB19	Working out Thirds ...	Calculating thirds by dividing.	N2/L1.2
FB20	Thirds and Sixths .....	Relationships between thirds and sixths.	N2/L1.1&2
FB21	Fifths and Tenths .....	Equivalent fractions and decimal numbers.	N2/L1.3&1
FB22	Comparing Fractions	Using fraction strips to find equivalent fractions.	N2/L1.1
FB23	Fractions of Numbers .....	Using fraction strips.	N2/L1.2
FB24	Fractions of Numbers .....	How to calculate e.g. 1 or 3 fifths of a number.	N2/L1.2
FB25	Top Heavy Fractions .....	Changing improper fractions into mixed numbers.	N2/L1.1
FB26	Mixed Numbers .....	Converting mixed numbers into improper fractions.	N2/L1.1
FB27	What Fraction ?.....	Putting simple data into fractional form.	N2/L1.12
FB28	Adding and Subtracting...	Simple calculations with denominators the same.	N2/L2.4
FB29	Adding and Subtracting...	Fractions with different denominators.	N2/L2.4
FB30	Fraction Calculations .....	Practical 'multiplication' of fractions.	N2/L2.4
FB31	Fraction Calculations .....	Practical 'division' of fractions.	N2/L2.4
FB32	Fractions of Fractions.....	Working out half of a quarter in practical contexts.	N2/L2.4
FB33	Calculator Fraction Key...	How to use a calculator to do fraction calculations.	N2/L2.10
FB34	Calculator Fraction Key...	Useful features of the fraction button.	N2/L2.10
Rev1	Fractions.....	A basic assessment sheet.	N2/L1
Rev2	Fractions Review.....	More demanding questions for assessment.	N2/L1&2

**Fraction Strips** Photocopy these onto card and use to compare fractions with different denominators. The strips are also useful for adding and subtracting fractions.

**Number Scales** Use with fraction strips to show how to find a fraction of a number. Line up the strips with the decimal or percentage scales to convert fractions into decimals or percentages.

**Fractions of Amounts** Use like the example on **FB20**.



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DA1	<b>Adding Tenths</b> ..... One unit is 10 tenths. Shading diagrams.	N2/L1.5
DA2	<b>Adding Tenths</b> ..... Carrying tenths to the units column. Vertical format.	N2/L1.5
DA3	<b>Adding Decimals</b> .. Numbers to 1 d.p. Mental and written calculations.	N2/L1.5
DA4	<b>Adding Hundredths</b> ... Using understanding of place value.	N2/L1.5
DA5	<b>Adding Decimals</b> ..... Numbers to 2 d.p. Making one whole unit.	N2/L1.5
DA6	<b>Adding Decimals</b> ..... Carrying hundredths or tenths or both.	N2/L1.5
DA7	<b>Adding Decimals</b> ..... Numbers to 3 d.p. Lining up the decimal points.	N2/L2.6
DA8	<b>Subtracting Tenths</b> .. ..... Simple subtractions to do mentally.	N2/L1.5
DA9	<b>Subtracting Decimals</b> ..... Borrowing from units to tenths.	N2/L1.5
DA10	<b>Subtracting Hundredths</b> .. Written and mental calculations.	N2/L1.5
DA11	<b>Subtracting Decimals : Borrowing</b> ... .....double borrowing.	N2/L1.5
DA12	<b>Subtracting Decimals : Borrowing</b> ... .....from zero.	N2/L1.5
DA13	<b>Subtracting Decimals</b> .... Numbers to 3 d.p. Lining up decimal points.	N2/L2.6
DA14	<b>Ten Times Larger</b> . ..... Using place value on tenths and hundredths.	N2/L1.6
DA15	<b>Multiplying by Ten</b> ..... By moving digits left one column.	N2/L1.6
DA16	<b>Ten Times Smaller</b> ..... Reverse of making numbers 10 times larger.	N2/L1.6
DA17	<b>Dividing by Ten</b> .... ..... Numbers to 3 d.p. Moving digits to right.	N2/L2.6
DA18	<b>Multiplying by 100</b> . ..... Digits moving two columns to the left.	N2/L1.6
DA19	<b>Dividing by 100</b> .... ..... The result of dividing by ten twice.	N2/L2.6
DA20	<b>How Much ?</b> ..... Buying in batches of 10 or 100.	N2/L1.6
DA21	<b>Multiplying by 1000</b> ..... As repeated multiplication by ten.	N2/L1.6
DA22	<b>Dividing by 1000</b> ... ..... As repeated division by ten.	N2/L1.6
DA23	<b>Bulk Quantities</b> ..... Prices for quantities of 10, 100 or 1000.	N2/L1.6
DA24	<b>Multiplied or Divided ?</b> .. by 10, 100, or 1000 ?	N2/L1.6
DA25	<b>Multiplying Decimals</b> ..... 3 x 0.6 as repeated addition	N2/L1.5
DA26	<b>Multiplying Decimals</b> ..... Using 7 x 8 to answer 0.7 x 0.8	N2/L2.6
DA27	<b>Multiplication Patterns</b> ... Continues previous sheet up to 3 d.p.	N2/L2.6
DA28	<b>Multiplying Decimals</b> ..... Written method for decimal x whole number.	N2/L1.5
DA29	<b>Multiplying Decimals</b> ..... Where to put the decimal point.	N2/L2.6
DA30	<b>Dividing Decimals</b> ..... Written method. Placing the decimal point.	N2/L1.5
DA31	<b>Dividing Decimals</b> ..... with decimal answers rather than remainders.	N2/L2.6
DA32	<b>Decimal Division</b> ... .. Tips for mental calculations.	N2/L2.6
	<b>Decimal Arithmetic · Review 1</b> ..... Mixed calculations for assessment.	N2/L1.5&6
	<b>Decimal Arithmetic · Review 2</b> ..... Harder written and mental problems to solve.	N2/L2.6
	<b>Extra resource</b> ..... Use this grid to practise multiplying and dividing by 10, 100 & 1000.	

# Percentage Basics : Contents

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<b>PB1</b>	<b>Per Cent ...</b> Basic introduction. .. 43% is 43 out of 100.	N2/L1.3
<b>PB2</b>	<b>Percentages : Hundredths</b> ..... Percentages as fractions out of 100.	N2/L1.3
<b>PB3</b>	<b>Percentages : Tenths</b> .....as percentages, fractions and decimals.	N2/L1.3
<b>PB4</b>	<b>Percentages as Decimals</b> . ..... Explaining why 27% is 0.27.	N2/L1.3
<b>PB5</b>	<b>100% Total</b> ..... A whole group is 100%.	N2/L1.8
<b>PB6</b>	<b>Halves and Quarters</b> ..... as percentages and decimals.	N2/L1.3
<b>PB7</b>	<b>Finding 25%, 50% and 75%</b> ..... by halving and quartering.	N2/L1.9
<b>PB8</b>	<b>Halves and Quarters</b> .....Extra reinforcement and extension.	N2/L1.9
<b>PB9</b>	<b>Percentages : Fifths</b> . .....Fifths as percentages and decimals.	N2/L1.3&9
<b>PB10</b>	<b>Finding Ten Per Cent</b> .....by dividing by 10. Price discounts.	N2/L1.9&10
<b>PB11</b>	<b>Ten Per Cent</b> .....More difficult mental and written calculations.	N2/L1.9&10
<b>PB12</b>	<b>Finding Percentages</b> .....Working out 40% as 4 lots of 10%.	N2/L1.9
<b>PB13</b>	<b>Five Per Cent</b> ....as half of ten per cent.	N2/L1.9
<b>PB14</b>	<b>Working out Percentages</b> .... Find 35% of 80.	N2/L2.8
<b>PB15</b>	<b>Pennies in the Pound</b> .....Mental calculations like 3% of £4.00.	N2/L1.9
<b>PB16</b>	<b>Calculating Percentages</b> ..... Calculating a percentage of a number.	N2/L2.11
<b>PB17</b>	<b>Percentage Problems</b> ..... Solving percentage problems.	N2/L2.8
<b>PB18</b>	<b>Out of 100</b> ..... 3 out of 20 is the same as 15%.	N2/L1.8
<b>PB19</b>	<b>Make it out of 100</b> ..... 50 out of 1000 is the same as 5%.	N2/L2.9
<b>PB20</b>	<b>What Percentage ?</b> ... One number as a percentage of another.	N2/L2.9&3
<b>PB21</b>	<b>What Percentage ?</b> ... As above using calculator no rounding.	N2/L2.9&10
<b>PB22</b>	<b>What Percentage ?</b> ... Harder examples requiring rounding.	N2/L2.9&10
<b>PB23</b>	<b>Increasing by a Percentage</b> ..... Calculating ( 100 + x )%	N2/L2.7&10
<b>PB24</b>	<b>Decreasing by a Percentage</b> .... Calculating ( 100 - x )%	N2/L2.7&10
<b>PB25</b>	<b>Percentage Changes</b> .....Using the rule for percentage increases.	N2/L2.7&10
<b>PB26</b>	<b>Percentage Changes</b> .....Finding percentage decreases.	N2/L2.7&10
<b>PB27</b>	<b>Percentage Changes</b> .....Harder calculations.	N2/L2.7&10
<b>PB28</b>	<b>Find the Number</b> ..... 27% of a number is 540 what is the number ?	
<b>PB29</b>	<b>Reversing Changes</b> .. Find the original amount before a percentage change.	
<b>PB30</b>	<b>What Was It ?</b> ... ..... Problems involving reverse percentages.	
<b>PB31</b>	<b>Value Added Tax</b> ..... How to calculate simple V.A.T.	N2/L2.8
<b>PB32</b>	<b>Value Added Tax</b> ..... Adding V.A.T on and finding net prices.	N2/L2.8
<b>Review1</b> .....	.....Mixed calculations for assessment.	N2/L1
<b>Review2</b> .....	.....Harder mixed problems.	N2/L2
<b>Percentage Strips</b> .....	Use like the examples on sheets <b>PB8</b> & <b>PB12</b> .	



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## FRACTIONS

F1	Fractions .....	Shading diagrams to show parts of a whole.	N2/E3.1
F2	What Fraction ?.....	Reading and writing fractions. Simple problems.	N2/L1.12
F3	Equivalent Fractions .. ...	Shading diagrams to show equivalences.	N2/E3.2
F4	Fractions .....	Calculating fractions of quantities e.g. one fifth.	N2/E3.6
F5	Fractions .....	Calculating fractions of quantities e.g. four fifths.	N2/L1.2
F6	Comparing Fractions.. ...	Using a fraction wall.	N2/L1.1
F7	Fractions of Amounts . ...	Using a calculator.	N2/L2.10
F8	Equivalent Fractions .. ...	Different ways to write the same fraction.	N2/L2.1
F9	Cancelling Fractions .. ...	to their simplest form.	N2/L2.3
F10	Common Denominators .	Finding and using them.	N2/L2.1
F11	Adding and Subtracting Fractions.....	with common denominators.	N2/L2.4
F12	Fractions Review		Up to level 2

## DECIMALS

D1	Decimals · Tenths .. ...	Tenths as fractions and decimals. Diagrams.	N2/L1.4
D2	Decimals · Tenths .. ...	Reading and marking scales.	N2/L1.4
D3	Decimals · Tenths .. ...	Place value. Ordering decimals.	N2/L1.4
D4	Decimals · Hundredths.....	Hundredths as fractions and decimals.	N2/L1.4
D5	Tenths and Hundredths .....	Numbers with two decimal places.	N2/L1.4
D6	Decimal Scales .....	Marked in hundredths. Ordering.	N2/L1.4
D7	Decimals · Thousandths ....	Place value to 3 decimal places.	N2/L1.4
D8	Putting Decimals in Order ..	Decimals to 3 d.p. & fractions.	N2/L1.4
D9	Nearest Whole Numbers....	Rounding off. ....	N2/L1.7
D10	Decimal Places .....	Rounding off to 1, 2 or 3 decimal places.	N2/L2.5
D11	Changing Fractions to Decimals .	..... using a calculator.	N2/L1.11
D12	Decimals Review		N2/L1.4

## PERCENTAGES

P1	Percentages ....	Basic introduction. 40 out of 200 is 20%.	N2/L1.8
P2	100 Per Cent... ..	Adding up totals to 100%.	N2/L1.8
P3	Fractions and Percentages .....	Equivalent forms.	N2/L1.3
P4	Fractions · Decimals · Percentages .....	Basic relationships.	N2/L1.3
P5	Percentages ....	Working out a percentage of a quantity.	N2/L1.9&11
P6	Percentages and Money ..	Calculating percentages of money.	N2/L1.9&11
P7	Increasing and Decreasing .....	by a given percentage.	N2/L1.10&11
P8	Percentages ....	Calculations involving rounding off.	N2/L2.8
P9	Increases and Decreases .....	Examples of percentage changes.	N2/L2.7&10
P10	Percentages · Fractions · Decimals..	Relationships between them.	N2/L2.2&10
P11	What Percentage ? ...	One number as a percentage of another.	N2/L2.9&10
P12	Percentages Review		Up to level 2
	Extra Resource.....	Copy then cut out squares and match equivalent amounts.	

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R1	Diluting Drinks..... Introduction to the idea of parts.	N1/L1.7
R2	Using Ratios..... Simple problems in practical situations.	N1/L1.7
R3	Mixing Paint ..... Using parts to scale up mixtures.	N1/L1.7
R4	Cake Recipe ..... Multiplying to keep ingredients in proportion.	N1/L1.7
R5	Scaling Recipes ..... Halving and doubling quantities.	N1/L1.7
R6	Scale Drawing Calculations ... Using various scales for maps & plans.	N1/L1.7
R7	Equivalent Ratios ... ..... Diagrams to show how ratios are the same.	N1/L1.7
R8	Simplifying Ratios .. ..... Cancelling down to the simplest form.	N1/L1.7
R9	What's the Ratio ?.. ..... Simplifying ratios from practical situations.	N1/L1.7
R10	Multipliers.....What was one number multiplied by to get another ?	N1/L1.5&3
R11	Ratios : Scaling Up ..... Multiplying ratios.	N1/L1.7
R12	Ratios : Splitting Amounts..... Sharing quantities in a given ratio.	N1/L1.7
R13	Proportion..... Word problems involving simple direct proportion.	N1/L1.7
R14	Shapes and Proportion .. Enlarging shapes with a scale factor.	MSS1/L1.11
R15	Ratio Review..... Mixed questions at Level 1.	N1/L1.7
R16	Simplifying Ratios .. Includes quantities in different units.	N1/L2.3
R17	What's the Ratio ?.. Harder examples of cancelling. Approximations.	N1/L2.3
R18	TV Screen Proportions.....Scaling up ratios in a practical context.	N1/L2.3
R19	Ratio : Splitting Amounts..... Sharing amounts of money in a given ratio.	N1/L2.3
R20	Ratio : Using Parts . ..... Finding the total given one of the shares.	N1/L2.3
R21	Maps and Plans ... Using scales like 2 cm to 5 km and 4 cm to 1 km.	N1/L2.3
R22	Using Scales ..... Calculations using scales 1 : 150, 1 : 50, 1 : 200.	N1/L2.3
R23	Proportion..... Harder problems about direct proportion.	N1/L2.3
R24	Ratio Review..... Assessment questions at Level 2.	N1/L2.3
R25	Ratios with Decimals..... Changing to whole numbers then simplifying.	
R26	Unitary Ratios ..... Using ratios in the form 1 : n or n : 1.	
R27	Ratios with Fractions..... Scaling up to use only whole numbers.	
R28	The Model Shop..... Understanding and using different scales.	
R29	Map scale Calculations .. How to use scales like 1 : 50,000 and 1 : 25,000.	
R30	Multipliers..... Finding them using a calculator. Effects of multiplying by 1 & 0.	
R31	Multipliers..... The effects of multiplying by numbers more and less than one.	
R32	Shapes and Proportion .. Changing the size of shapes. Decimal scale factors.	

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## Entry Level 1

MsB1	Long and Short .....	Identifying the longest and shortest objects.	MSS1/E1.4
MsB2	Large and Small .....	Using size vocabulary.	MSS1/E1.3
MsB3	Size .....	Comparing different sizes and shapes.	MSS1/E1.3&4
MsB4	Heavy or Light.....	Which object is lighter or heavier ?	MSS1/E1.5

## Entry Level 2

MsB5	Measuring in Centimetres. ...	Using a ruler to find the length of lines.	MSS1/E2.5
MsB6	Drawing Lines .....	Distances in whole numbers of centimetres.	MSS1/E2.5
MsB7	Using Centimetres ....	Word problems involving length vocabulary.	MSS1/E2.5
MsB8	Metres.....	Questions introducing the metre in real contexts.	MSS1/E2.5
MsB9	Estimating and Measuring ...	Using centimetres and metres	MSS1/E2.5
MsB10	Metres or Centimetres .....	Which would you choose to measure things ?	MSS1/E2.5
MsB11	Weight.....	Word problems about kilograms.	MSS1/E2.6
MsB12	How many Kilograms ? ....	Reading a scale to measure people's weights.	MSS1/E2.6
MsB13	Litres.....	Word problems about litres.	MSS1/E2.7
MsB14	Using Water.....	How many litres do you use for everyday tasks ?	MSS1/E2.7
MsB15	Hot or Cold ? .....	Comparing temperatures on a UK weather map.	MSS1/E2.8

## Entry Level 3

MsB16	Centimetres and Millimetres .	1 cm is 10 mm. Measuring & drawing lines.	MSS1/E3.5
MsB17	Measuring in Millimetres... ..	Practise using a ruler accurately.	MSS1/E3.5
MsB18	Measuring Accurately .....	Measuring in tenths of centimetres.	MSS1/E3.5
MsB19	Long Distances .....	Questions and facts about miles and kilometres.	MSS1/E3.4
MsB20	Travelling.....	Word problems about travelling long distances.	MSS1/E3.4
MsB21	Choosing Units.....	Which unit would you use for these distances ?	MSS1/E3.8
MsB22	Guess the Distance ..	Choosing which real-life distance is most sensible.	MSS1/E3.5
MsB23	Kilograms and Grams	Introducing grams and kilograms. Practical work.	MSS1/E3.6
MsB24	Weighing Scales .....	Using scales marked in 100 g steps to weigh food.	MSS1/E3.6
MsB25	Weighing .....	Estimating and measuring weights.	MSS1/E3.6
MsB26	Guess the Weight.....	Decide which weight belongs to each object.	MSS1/E3.6
MsB27	Litres and Millilitres ...	Comparing capacities of containers.	MSS1/E3.7
MsB28	Millilitres .....	Reading the scale on a measuring jug. 50 ml steps.	MSS1/E3.7
MsB29	Guess the Capacity ..	How much will each container hold ?	MSS1/E3.7
MsB30	Temperatures .....	Marking temperatures on a 0 to 100°C scale.	MSS1/E3.9
MsB31	Reading Thermometers....	with scales going up in twos. Worldwide cities.	MSS1/E3.9
MsB32	Oven Temperatures ..	Reading a circular scale marked in tens.	MSS1/E3.9

EXTRAS Measurement cards .. Use for ordering, conversions etc.

What Would You Use ? .....	Cut out cards. Match the equipment with the tasks.	MSS1/E3.8
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## Metric Measurement

<b>M1</b>	<b>Centimetres..</b> ..... Estimating and measuring, drawing lines.	MSS1/E3.5
<b>M2</b>	<b>Centimetres and Millimetres</b> ..... Estimating & measuring, reading scales.	MSS1/E3.5
<b>M3</b>	<b>Centimetres and Millimetres</b> ..... Relationship between units, conversions.	MSS1/L1.7
<b>M4</b>	<b>Metres and Centimetres</b> ..... Introduction to units.	MSS1/L1.7
<b>M5</b>	<b>Metres and Centimetres</b> ..... Conversions between units.	MSS1/L1.7
<b>M6</b>	<b>Metres and Millimetres.</b> ..... Practical examples connecting the units.	MSS1/L1.7
<b>M7</b>	<b>Measurement in Metric Units</b> .... Practical work estimating and measuring.	MSS1/L1.4
<b>M8</b>	<b>Kilometres</b> .... ..... Relationship between kilometres & metres.	MSS1/L1.7
<b>M9</b>	<b>Metric Units Quiz</b> .... Familiarity with size of distances. Ordering.	MSS1/L1.4
<b>M10</b>	<b>Perimeters</b> .... ..... Measuring and calculating.	MSS1/L1.8
<b>M11</b>	<b>Calculations in Metric Units</b> ... Problems involving mixed units. + & -	MSS1/L1.6
<b>M12</b>	<b>Calculations in Metric Units</b> ... Multiplication and division problems.	MSS1/L2.5

## Imperial Units

<b>Imp1</b>	<b>Using Mileage Charts</b> .... Understanding and using a table of distances.	MSS1/L1.5
<b>Imp2</b>	<b>Feet and Inches..</b> ..... A basic introduction. Estimating & measuring.	MSS1/L1.4
<b>Imp3</b>	<b>Feet and Inches..</b> ..... Simple conversions..	MSS1/L2.5
<b>Imp4</b>	<b>Yards, Feet and Inches</b> ..... Choosing units to measure distances.	MSS1/L2.3&5
<b>Imp5</b>	<b>Calculations in Feet and Inches</b> ..... Adding, subtracting etc.	MSS1/L2.5

## Conversions between Metric and Imperial Units

<b>Con1</b>	<b>Rough Conversions</b> ... ..... Mental calculations, inches & feet to cm.	MSS1/L2.6
<b>Con2</b>	<b>Unit Conversion Tables</b> ..... How to use them to convert distances.	MSS1/L2.6
<b>Con3</b>	<b>Using a Conversion Graph.</b> .... to change between cm and inches.	HD1/L1.1
<b>Con4</b>	<b>Miles and Kilometres</b> ..... Using the relationship 5 miles = 8 km.	MSS1/L2.6
<b>Con5</b>	<b>Using Conversion Factors</b> ... Calculator calculations.	MSS1/L2.6
<b>Conversion Facts</b>	..... To use with Con2 and Con5.	MSS1/L2.6

## Scale Drawings and Maps

<b>S1</b>	<b>Scale Drawings</b> ..... Measuring and drawing plans. Scale 1 cm to 1 m.	MSS1/L1.11
<b>S2</b>	<b>Scale Drawings</b> ..... Measuring and drawing plans with simple scales.	MSS1/L1.11
<b>S3</b>	<b>Street Map</b> ..... ..... Reading a street map with scale 1 cm to 100 m.	MSS2/L1.3
<b>S4</b>	<b>Using a Street Map.</b> ..... Measuring distances and giving directions.	MSS2/L1.3
<b>S5</b>	<b>Road Map</b> ..... Reading a simple road map with scale 1 cm to 1 km.	MSS2/L1.3
<b>S6</b>	<b>Using a Road Map</b> .. Following instructions and measuring distances.	MSS2/L1.3
<b>S7</b>	<b>Scale Drawings</b> ..... Introduction to using ratio scales e.g. 1 : 100.	MSS1/L2.10
<b>S8</b>	<b>Scale Drawings</b> ..... Practice using ratio scales. Measuring diagrams.	MSS1/L2.10
<b>Rev1</b>	<b>Measurement Review</b> ... Mixed questions for assessment at Level 1.	MSS1/L1
<b>Rev2</b>	<b>Measurement Review</b> ... Mixed questions for assessment at Level 2.	MSS1/L2

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## AREAS

A1	Area ..... Finding areas by counting squares, square cm.	MSS1/L1.9
A2	Area : Counting Squares ..... $\frac{1}{2}$ squares and estimating irregular areas.	MSS1/L1.9
A3	Rectangle Areas .... Counting rows of square centimetres.	MSS1/L1.9
A4	Rectangle Areas. ... Estimating, calculating areas using the formula.	MSS1/L1.9
A5	Square Millimetres Measuring and calculating rectangle areas.	MSS1/L1.9
A6	Square Inches, Feet and Yards ..... Word problems about rectangles.	MSS1/L1.9
A7	Measuring Rectangle Areas ... Practical work for all levels.	MSS1/L1.9&5
A8	Splitting up Areas... Shapes made up of two or more rectangles.	MSS1/L2.8
A9	Rectangle Areas .... Finding the length of a missing side.	MSS1/L2.7
A10	Triangle Areas .....Right angled triangle area is half rectangle area.	MSS1/L2.7
A11	Triangle Areas .....Right angled triangle areas using the formula.	MSS1/L2.7
A12 & A13	Triangle Areas .... Introducing the perpendicular height.	MSS1/L2.7
A14	Triangle Areas .....Using the formula for any triangle.	MSS1/L2.7
A15	Splitting up Areas... made up of rectangles & right angled triangles.	MSS1/L2.8

CIRC1	Circles : Radius and Diameter.... Measuring and drawing.	MSS1/L2.7
CIRC2	Circles : Circumference ..... Measuring and using the formula.	MSS1/L2.7
CIRC3	Circle Areas .....Using the formula and a calculator.	MSS1/L2.7
CIRC4	Circle Areas .....Composite shapes with semicircles and rectangles.	MSS1/L2.8

## WEIGHTS

W1	Kilograms and Grams ..... Introduction 1 kg = 1000 grams	MSS1/E3.6
W2	Kilograms and Grams. .... Parcel weights and prices, reading scales.	MSS1/E3.6
W3	Kilograms and Grams. .... Conversions between kg and g.	MSS1/L1.7
W4	Pounds and Ounces ..... Relationships and conversions 1 lb = 16 oz	MSS1/L2.5
W5	Converting Weights ..... Conversions between metric and imperial.	MSS1/L2.6
W6	Measuring Weight.. ..... Practical work estimating and weighing.	MSS1/E3.6

## CAPACITY

C1	Litres ..... Introduction to units. 1 litre = 1000 ml	MSS1/E3.7
C2	Litres and Millilitres ..... Relationships between litres and ml , scales.	MSS1/L1.7
C3	Litres and Millilitres ..... Conversion calculations.	MSS1/L1.7
C4	Litres and Gallons.. ..... Using a scale to compare and convert.	MSS1/L2.6

Ang1	Measuring Angles ..... Estimating and drawing angles up to $180^\circ$ .	MSS2/L1.1
Ang2	Measuring Angles. .... Checking angle rules by measuring.	MSS2/L1.1
Ang3	Types of Angle... Acute, obtuse and reflex angles.	MSS2/L2.2

Measurement Fact Sheet ..... Relationships between units, area formulas.  
Dotty paper ..... Draw extra shapes on here to reinforce area work.



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SB1	Where is it ?..... Using positional vocabulary.	MSS2/E1.2
SB2	Where is it going ? . ... Words associated with movement.	MSS2/E1.2
SB3	<b>Straight and Curved</b> ... Looking at lines and shapes.	MSS2/E1
SB4	<b>Squares</b> ..... Drawing and identifying squares. Finishing patterns.	MSS2/E1.1
SB5	<b>Rectangles</b> .....Introducing rectangles. Comparison vocabulary.	MSS2/E1.1
SB6	<b>Circles</b> .....Which shapes are circles ? Different sizes.	MSS2/E1.1
SB7	<b>Sides and Corners</b> . Counting how many different shapes have.	MSS2/E2.2
SB8	<b>Squares and Rectangles</b> . ... Looking at their different properties.	MSS2/E1.1
SB9	<b>Triangles</b> ... Working with three-sided shapes.	MSS2/E2.2
SB10	<b>Measuring Shapes</b> . ... How long are the edges of shapes ?	MSS1/E2.5
SB11	<b>Drawing Shapes</b> ... Drawing and copying shapes accurately.	MSS1/E2.5
SB12	<b>Shape Patterns</b> ... Continuing patterns using various shapes.	MSS2/E2
SB13	<b>Left and Right</b> ... Practise distinguishing between the two.	MSS2/E2.3
SB14	<b>Directions</b> .. Follow routes on simple maps. Left & right turns.	MSS2/E2.3
SB15	<b>Cubes</b> ..... 3D shape vocabulary. Faces, edges and corners.	MSS2/E2.1&2
SB16	<b>Cuboids</b> ..... Identifying cuboids. Cuboid drawing.	MSS2/E2.1&2
SB17	<b>Cylinders</b> ... Properties of cylinders. Which shapes are cylinders ?	MSS2/E2.1&2
SB18	<b>Spheres</b> ..... Looking at hollow and solid spherical shapes.	MSS2/E2.1&2
SB19	<b>Cones</b> ..... What everyday shapes are cones ? Make a cone.	MSS2/E2.1&2
SB20	<b>Pyramids</b> ... Looking at the features of pyramids.	MSS2/E2.1&2
SB21	<b>Prisms</b> ..... Investigating triangular prisms in different orientations.	MSS2/E2.1&2
SB22	<b>Name the Shapes</b> . ... Identifying common 2D and 3D shapes.	MSS2/E3
SB23	<b>Right Angles</b> .....Identifying right-angled corners. Drawing right angles.	MSS2/E2.4
SB24	<b>Right Angles in Shapes</b> ... Which shapes have right-angled corners ?	MSS2/E3.1
SB25	<b>Symmetry</b> .. Identifying lines of symmetry on simple shapes.	MSS2/E3.1
SB26	<b>Lines of Symmetry</b> . ... Completing drawings of symmetrical shapes.	MSS2/E3.1
SB27	<b>Which Shape ?</b> . ... Match shapes to their descriptions.	MSS2/E3.1
SB28	<b>Shape Patterns</b> ... Drawing simple repeating patterns on grids.	MSS2/L1.1
SB29	<b>Tessellations</b> .... Continuing patterns using two different shapes.	MSS2/L1.1
SB30	<b>Quarter-Turns</b> ... Rotating lines and shapes through right angles.	MSS2/L1.1
SB31	<b>Angles</b> ..... Fitting right angles together to make a full turn.	MSS2/L1.1
SB32	<b>Measuring Angles</b> . ... Practice using a protractor.	MSS2/L1.1
SB33	<b>Angles in Shapes</b> . ... Measuring the size of angles accurately.	MSS2/L1.1
SB34	<b>Drawing Accurately</b> ... Making exact drawings from rough sketches.	MSS2/L1
	<b>Shapes : Symmetry</b> .....Cut out the shapes to investigate their symmetry.	
	<b>3D Shape Sorting</b> . ....Cut out and sort these pictures of 3D shapes.	MSS2/E3.1



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2D·1	Perpendicular Lines .....	Drawing and identifying perpendicular lines.	
2D·2	Parallel Lines .....	Drawing and identifying parallel lines.	MSS2/L2.2
2D·3	Reflective Symmetry .....	Drawing lines of symmetry onto shapes.	MSS2/E3.1
2D·4	Reflective Symmetry .....	Completing shapes with lines of symmetry.	MSS2/E3.1
2D·5	Rotational Symmetry.....	Finding the order of rotational symmetry of shapes.	
2D·6	Congruent Shapes .....	Definition. Identifying congruent shapes.	
2D·7	Squares.....	Properties of squares. Drawing and measuring squares.	MSS2/L2.3
2D·8	Rectangles .....	Properties. Perimeter measurements. AB notation.	MSS2/L2.3
2D·9	Triangles .....	Definitions of equilateral and isosceles. Angle calculations.	
2D·10	Triangles .....	Scalene and right-angled triangles. Symmetry.	
2D·11	Drawing Triangles .....	Drawing all different sorts of triangles to scale.	
2D·12	Parallelograms ....	Properties of parallelograms. Drawing and measuring.	
2D·13	Rhombuses.....	Definition of a rhombus. Drawing shapes.	
2D·14	Trapeziums .....	Identifying trapeziums.	
2D·15	Kites .....	Properties of kites. Drawing accurate diagrams.	
2D·16	Quadrilaterals.....	Distinguishing between the different types.	
2D·17	Polygons .....	Names of polygons. Definition of regularity.	
2D·18	Reflecting Shapes.....	Using vertical and horizontal mirror lines.	MSS2/L2.3
2D·19	Reflecting Shapes 2....	Shapes crossing the mirror line.	MSS2/L2.3
2D·20	Reflecting Shapes 3 ...	In diagonal mirror lines.	MSS2/L2.3
2D·21	Translating Shapes .....	Identifying and performing translations.	
2D·22	Rotating Shapes .	..... through $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ turns.	MSS2/L2.3
2D·23	Rotating Shapes 2	..... about a point on the shape. Clockwise & anti.	MSS2/L2.3
2D·24	Rotating Shapes 3	..... about a point that is remote from the shape.	
2D·25	Rotating Shapes 4	..... Identifying the centre and angle of rotations.	
2D·26	Enlarging Shapes .....	Simple enlargements with whole scale factors.	
2D·27	Reducing Shapes .....	Reducing shapes with fractional scale factors.	
Rev1	2D Shapes Review .....	Names and simple properties of shapes.	
Rev2	2D Shapes Review .....	Using properties of shapes, vocabulary.	
Rev3	Transforming Shapes Review.....	Using all the different transformations.	
2D Shapes	.....	an extra resource for your own ideas for reinforcement.	
Centimetre squared paper	.....	for use with 2D·26 and 2D·27 and for extra practice.	

# 3D Shapes : Contents

Adult Numeracy  
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3D-1	Cubes .....	Properties of cubes. Faces, edges and corners.	MSS1/L1.9
3D-2	Cuboids ....	Geometry of cuboids. Definitions of 2D and 3D shapes.	
3D-3	Drawing Cuboids .....	Completing partly finished drawings.	MSS2/L2.1
3D-4	Nets .....	Introduction to nets. Cuboid and cube nets.	MSS2/L2.1
3D-5	Cuboids : Surface Area .....	Step by step calculation.	MSS1/L1.9
3D-6	Counting Boxes . .....	Preparation for volume calculations.	MSS1/L1.10
3D-7	Volume .....	Counting cubic centimetres to find the volume of a solid.	MSS1/L1.10
3D-8	Cuboid Volumes .....	Using the formula. Various cubic units.	MSS1/L1.10
3D-9	Cuboid Volumes .....	Calculating the length of a side.	MSS1/L2.9
3D-10	Cylinders ....	Geometry of cylinders. Surface area calculation.	MSS1/L2.7
3D-11	Spheres .....	Problems involving spheres. Hemispheres.	
3D-12	Cones .....	Properties of cones. Drawing and making cones.	
3D-13	Pyramids ....	Definition of pyramids and tetrahedrons. Drawing.	
3D-14	Pyramid Nets.....	Drawing and using nets. Surface area calculation.	MSS2/L2.1
3D-15	Triangular Prisms .....	Introduction to prisms. Drawing cross-sections.	
3D-16	Prisms .....	Definition and properties of prisms. Recognising prisms.	
3D-17	Prism Nets .....	Drawing & interpreting nets. Surface area.	MSS2/L2.1
3D-18	Prism Volumes ....	Counting cubes in layers to introduce the formula.	MSS1/L2.9
3D-19	Prism Volumes ....	Using the formula in simple situations.	MSS1/L2.9
3D-20	Prism Volumes ....	Calculating the length or cross-section area.	MSS1/L2.9
3D-21	Cylinder Volumes .....	Extending the prism formula to cylinders.	MSS1/L2.9
3D-22	Views.....	Interpreting plan, front and side views.	MSS2/L2.1
3D-23	Views.....	More complicated plans and elevations.	MSS2/L2.1
3D-24	Different Views .. ...	Deciding which direction a view is drawn from.	MSS2/L2.1
3D-25	Drawing Views .. .....	Drawing views from different directions.	MSS2/L2.1
3D-26	Planes of Symmetry .....	Definition. Cuboid, cube, cylinder & sphere.	
3D-27	Planes of Symmetry .....	Drawing planes on a pyramid, prism.	
3D-28	Cubic Units .....	Explaining conversions between different units.	
Rev1	3D Shapes Review.....	Basic properties of solid shapes.	
Rev2	3D Shapes Review.....	More demanding problems.	
Rev3	Volumes Review .....	Cuboids, cylinders and prism calculations.	MSS1/L2.9

Cuboid, Prism and Pyramid Nets.. Copy onto card and make 3D shapes  
Isometric Paper .....

Use for practice in drawing 3D shapes.

# Time Basics : Contents

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## Entry Level Two

TB1	<b>Days of the Week</b> ..... Spelling, ordering & vocabulary.	MSS1/E1.2
TB2	<b>Months</b> .... Learn the months in order & in abbreviated form.	MSS1/E2.3
TB3	<b>Writing Dates</b> ..... Introduction to using the 'day - month - year' format.	MSS1/E2.3
TB4	<b>O'clock</b> .... Reading clocks on the hour.	MSS1/E2.4
TB5	<b>Hours Later</b> ..... Calculations in whole hours.	MSS1/E2.4
TB6	<b>Half Past</b> . Reading clocks showing half past the hour.	MSS1/E2.4
TB7	<b>Quarter Hours</b> .... Quarter to and past the hour.	MSS1/E2.4
TB8	<b>Half and Quarter Hours</b> ..... Calculations forwards and backwards.	MSS1/E2.4
TB9	<b>Digital Clocks</b> ..... Writing e.g. quarter to seven as 6.45.	MSS1/E2.4
TB10	<b>Time Basics Review</b> ... Mixed questions at Entry level 2.	MSS1/E2.3&4

## Entry Level Three

TB11	<b>Calendars and Dates</b> . Looking at one month from a calendar.	MSS1/E3.3
TB12	<b>Using a Calendar</b> ..... to find dates and days of the week.	MSS1/E3.3
TB13	<b>Minutes Past</b> ..... Reading clocks in five minute steps past the hour.	MSS1/E3.3
TB14	<b>What Time ?</b> ..... Writing minutes past the hour in figures.	MSS1/E3.3
TB15	<b>Minutes Later</b> ..... Simple calculations involving minutes past the hour.	MSS1/E3.3
TB16	<b>Minutes To</b> ..... Reading clocks in five minute steps to the hour.	MSS1/E3.3
TB17	<b>How Long ?</b> ..... Calculating time gaps within one hour.	MSS1/E3.3
TB18	<b>Time Arithmetic</b> .. General knowledge word problems about time.	N1/E3
TB19	<b>Guess How Long !</b> ..... Estimating how long everyday tasks take.	MSS1/E3.3
TB20	<b>Minutes Past the Hour</b> .... Writing e.g. twenty to six as 5.40.	MSS1/E3.3
TB21	<b>Digital Clocks</b> .... Writing the time in different formats.	MSS1/E3.3
TB22	<b>a.m. and p.m.</b> ..... Deciding whether times are a.m. or p.m.	MSS1/E3.3
TB23	<b>Jim's Day</b> . .... Changing times from words to figures.	MSS1/E3.3
TB24	<b>Bus Times</b> ..... Calculating the arrival times of buses.	MSS1/E3.3
TB25	<b>Cooking Times</b> ... Working out when food will be ready.	MSS1/E3.3
TB26	<b>How Long ?</b> ..... Calculating time gaps that go through the hour.	MSS1/L1.3
TB27	<b>Counting in Hours</b> ..... Adding on whole hours to times.	MSS1/L1.3
TB28	<b>Opening Times</b> ... Word problems based on opening times.	HD1/E3.1
TB29	<b>The 24 Hour Clock</b> ..... Conversions between 12 hr and 24 hr times.	MSS1/E3.3
TB30	<b>Time Basics Review</b> ... Date and time questions at Entry level 3.	MSS1/E3.3
	<b>Clocks</b> ..... Use these for extra practice on problem areas.	
	<b>Time Words</b> ..... Copy onto card, cut up and use to reinforce vocabulary.	

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<b>T1</b>	<b>Dates</b> ..... Writing dates in the correct format. Months.	MSS1/L1.2
<b>T2</b>	<b>How much Time ?</b> ..... Estimating the time it takes things to happen.	MSS1/L1.2
<b>T3</b>	<b>What's the Time ?</b> ..... Reading clocks in words and numbers.	MSS1/E3.3
<b>T4</b>	<b>Reading Clocks</b> .... Recording times accurately, using a.m. and p.m.	MSS1/L1.2
<b>T5</b>	<b>Digital Clocks</b> ..... Reading digital displays. Writing times numerically.	MSS1/L1.2
<b>T6</b>	<b>12 and 24 Hours Clocks</b> ..... Converting between the two systems.	MSS1/L1.2
<b>T7</b>	<b>Driving Times</b> ..... Counting forwards or backwards from a given time.	MSS1/L1.3
<b>T8</b>	<b>How Long ?</b> . ..... Working out time intervals in hours and minutes.	MSS1/L1.3
<b>T9</b>	<b>Later and Earlier</b> .. Counting on and back through the hour.	MSS1/L1.3
<b>T10</b>	<b>Time Gaps</b> .... ..... Intervals that go through the hour.	MSS1/L1.3
<b>T11</b>	<b>Using a Digital Stopwatch</b> .... Timing activities.	MSS1/L1.2
<b>T12</b>	<b>Days, Weeks and Years</b> ..... Calculations in different units of time.	MSS1/L1.2&3
<b>T13</b>	<b>Hours and Minutes</b> ..... Converting times from hours to minutes.	MSS1/L1.3
<b>T14</b>	<b>Hours and Minutes</b> ..... Adding and subtracting amounts of time.	MSS1/L1.3
<b>T15</b>	<b>Hours and Minutes</b> ..... Calculations using multiplication and division.	MSS1/L1.3
<b>T16</b>	<b>Minutes and Seconds</b> .. Word problems using minutes and seconds.	MSS1/L1.2&3
<b>T17</b>	<b>Timetables</b> ... ..... Reading a simple timetable.	MSS1/L1.2&3
<b>T18</b>	<b>Timetables</b> ... ..... Using and interpreting a timetable.	MSS1/L1.2&3
<b>T19</b>	<b>Planning a Trip</b> ..... Use a real timetable to plan your own trip.	MSS1/L1.2&3
<b>T20</b>	<b>Time Review 1</b> ..... Clocks, a.m. and p.m., 24 hr clock, calculations.	MSS1/L1.2&3
<b>T21</b>	<b>Using a Calendar</b> ... Counting backwards and forwards to plan dates.	MSS1/L2.2
<b>T22</b>	<b>Passing Years</b> ..... Problems about dates, months and years.	MSS1/L2
<b>T23</b>	<b>Time Calculations</b> .. Counting on or back in hours and minutes.	MSS1/L2.2
<b>T24</b>	<b>Time Gaps</b> .... ..... Finding the length of time between two times.	MSS1/L2.2
<b>T25</b>	<b>Time Review 2</b> ..... Calculations in hours and minutes and using dates.	MSS1/L2.2
<b>Sp1</b>	<b>Speeds</b> .. ..... Understanding speeds, calculating distances.	
<b>Sp2</b>	<b>Average Speeds</b> ... Working out speeds in different units.	
<b>Sp3</b>	<b>Journey Times</b> ..... Calculating how long journeys take.	
<b>Sp4</b>	<b>Speed Problems</b> ... Involving fractions of hours.	
<b>Sp5</b>	<b>Speed Problems</b> ... Harder questions. Changing between km per hr & m per sec.	
<b>Rt1</b>	<b>Rates</b> ..... Basic introduction to rates e.g. copies per minute.	
<b>Rt2</b>	<b>Find the Rate</b> ..... Calculating rates in a variety of units.	
<b>Rt3</b>	<b>How Long Will It Take ?</b> ..... Finding the time taken to do things at a given rate.	
	<b>Week Planner</b> ..... use this to make timetables of students' weekly activities.	

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MB1	Counting up to 10 p.. Adding up totals to ten pence.	N1/E1.4
MB2	Counting Coins.. ..... Finding the total value of sets of coins.	MSS1/E2.1
MB3	Spending Coins. .... Choosing coins to pay for items less than £1.00.	MSS1/E2.1
MB4	Counting up to £ 1.00 ..... Counting amounts in tens.	MSS1/E2.2
MB5	Making One Pound ... Using coins to make a total of £ 1.00.	MSS1/E2.1
MB6	Coins in Change ..... Change from £1.00. Using coins.	MSS1/E2.2
MB7	Counting up Change . Change from £1.00 in two steps.	MSS1/E2.2
MB8	Change from £ 1.00.. Work out the change when paying with £ 1.00.	MSS1/E2.2
MB9	Newsagents..... ..... Finding the total cost of items in pence.	MSS1/E2.2
MB10	Counting Notes . ..... Adding up sets of notes.	MSS1/E2.2
MB11	Review Sheet .... ..... Mixed questions for Entry Level 2.	MSS1/E2.1&2
MB12	Pounds and Pence .... Writing amounts given in words in pounds.	N2/E3.3
MB13	Counting Coins.. ..... Total value of coins more than £1.00.	N2/E3.3
MB14	Spending Coins. .... Paying for items costing less than £5.00.	N2/E3.3
MB15	Pounds and Pence .... Changing amounts from pounds to pence.	N2/E3.3
MB16	Pounds and Pence .... Changing amounts from pence to pounds.	N2/E3.3
MB17	Spending Notes. .... Choosing notes to pay for items.	N2/E3.3
MB18	Fast Food ..... Adding up totals. Answers in pence and pounds.	MSS1/E3.1
MB19	Line it Up !..... Aligning amounts correctly to add and subtract.	MSS1/E3.1
MB20	Stationery Store .... Adding totals of amounts mixed in pence and £.	MSS1/E3.1
MB21	Price Cuts..... ..... Subtracting amounts in pounds and pence.	MSS1/E3.1
MB22	How Much Left ? ..... Subtracting amounts.	MSS1/E3.1
MB23	Chemists ..... Adding small amounts in pounds.	MSS1/E3.1
MB24	Counting up to £5.00 . Counting up change in two steps.	MSS1/E3.1
MB25	Change from £ 5.00. . Find the change when paying with a £5 note.	MSS1/E3.1
MB26	Change from £ 10.00 . Working out change.	MSS1/E3.1
MB27	Using a Calculator..... Introduction to calculator use. "Missing" zeros.	MSS1/E3.1
MB28	Rounding Prices ..... Making rough calculations to the nearest £.	MSS1/E3.2
MB29	What's The Cost ?..... Finding the cost of buying several of an item.	N1/E3.4
MB30	What does each cost ? ..... Finding the cost of each item in a pack.	N1/E3.6
MB31	Review Sheet .... Questions for assessment at Entry Level 3.	MSS1&N2/E3



Use these templates to create  
your own worksheets for  
revision and reinforcement.

Supermarket  
Chemists  
Garden Centre  
Cinema  
DIY Store

# Money Skillsheets : Contents

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Mon1	<b>Coins</b> ..... Counting and using coins. Writing amounts in pounds.	N2/E3.3
Mon2	<b>Coins and Notes</b> .... Counting money in pounds and pence.	N2/E3.3
Mon3	<b>Pounds and Pence</b> . Changing amounts between pounds and pence.	N2/E3.3
Mon4	<b>Writing Cheques</b> .... Practice in writing out cheques. <b>Blank Cheques</b> ..... For use with Mon4.	N1/E3.1
Mon5	<b>Adding Money</b> ..... Lining up amounts correctly to find totals.	MSS1/L1.1
Mon6	<b>Subtracting Money</b> ..... Writing both amounts in pounds.	MSS1/L1.1
Mon7	<b>Counting Up Change</b> ..... Working out change from £5 and £10.	MSS1/E3.1
Mon8	<b>Multiplying Money</b> . ..... Amounts in pence and pounds.	MSS1/L1.1
Mon9	<b>Using a Ready Reckoner</b> for buying stamps.	MSS1/L1.1
Mon10	<b>Counting Coins</b> ..... Counting batches of coins.	MSS1/L1.1
Mon11	<b>Dividing Money</b> ..... Problems to be aware of when dividing.	MSS1/L1.1
Mon12	<b>Rounding Off</b> .. ..... Approximating to the nearest whole pound.	N2/L1.7
Mon13	<b>Rates</b> ..... Using and calculating hourly rates, cost per metre etc.	MSS1/L1.1
Mon14	<b>Working out Discounts</b> ..e.g. ¼ or third off, sale prices.	N2/L1.5
Mon15	<b>Value for Money</b> ..... Comparing packs with single items.	MSS1/L1.1
Mon16	<b>Comparing Prices</b> ... Using unit costs, price per item.	MSS1/L1.1
Mon17	<b>Review Sheet</b> . ..... Questions to answer without a calculator.	MSS1/L1.1
Mon18	<b>Using a Calculator</b> .. Calculating in pounds or pence. Missing zeros.	N2/L1.11
Mon19	<b>Using a Calculator</b> .. Double checking complicated calculations.	N2/L1.11
Mon20	<b>Rough Prices</b> . ..... Estimating costs by rounding amounts.	N1/L1.9
Mon21	<b>Estimating Costs</b> .... of buying several items.	N1/L1.9
Mon22	<b>Writing out Bills</b> ..... Writing out and adding up cafe bills. <b>Blank bills</b> for use with Mon22.	MSS1/L1.1
Mon23	<b>Profit and Loss</b> ..... Working out amounts gained or lost.	MSS1/L1.1
Mon24	<b>Credit and Loans</b> .... Monthly repayments, comparing loans.	MSS1/L1.1
Mon25	<b>Which Size is Best Value ?</b> .... Comparing different pack sizes.	MSS1/L1.1
Mon26	<b>Rounding to the Nearest Penny</b> ..... Amounts in pence.	N2/L1.7
Mon27	<b>Rounding off to the Nearest Penny</b> ... Amounts in pounds.	N2/L1.7
Mon28	<b>Review Sheet</b> . ... Level 1 calculations to be done with a calculator.	MSS1/L1.1
Mon29	<b>Money Problems</b> .... Multi step calculations, no calculator allowed.	MSS1/L2.1
Mon30	<b>Money Calculations</b> ..... Use a calculator to solve problems.	MSS1/L2.1
Mon31	<b>Changing Currency</b> ..... Introduction to conversions.	MSS1/L2.1
Mon32	<b>Currency Conversions</b> ... Solving problems with currencies.	MSS1/L2.1
Mon33	<b>Buying and Selling Currency</b> ..... why do exchange rates alter ?	MSS1/L2.1
Mon34	<b>Money Review</b> ..... Questions for assessment at Level 2.	MSS1/L2.1



# Graphs and Charts : Contents

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## Entry Level 2

G&C1	What's the Weather Like ? ... Using information from a simple table.	HD1/E2.1
G&C2	People's Weights ..... Putting data into a table.	HD1/E2.5
G&C3	Car Colours ..... Reading and drawing basic block graphs.	HD1/E2.2
G&C4	Goals ..... Interpreting a pictogram.	HD1/E2.1&5
G&C5	United Kingdom ..... Using a bar chart with scale marked in tens.	HD1/E2.2

## Entry Level 3

G&C6	Cycling Records ..... Getting data from a table.	HD1/E3.1
G&C7	Cycle Shop ..... Understanding and drawing pictograms.	HD1/E3.2
G&C8	Newspaper Sales ... A pictogram with half symbols.	HD1/E3.2
G&C9	The Monsoon ..... Vocabulary for graphs - axis, label and title.	HD1/E3.2&1
G&C10	Museum Visitors ..... Bar chart with scale marked in tens. Estimating.	HD1/E3.2&4
G&C11	Holiday Weather ..... Interpreting data from tables and a bar chart.	HD1/E3.1

## Level 1

G&C12	GCSE Courses ..... Extracting information from a table.	HD1/L1.1
G&C13	DVD Rentals ..... Using pictograms with $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ symbols.	HD1/L1.1
G&C14	Internet Access ..... Reading and interpreting a bar chart. Predicting.	HD1/L1.1
G&C15	Technology at Home ..... Double bar chart. Estimating readings.	HD1/L1.1
G&C16	How Far do People Walk ? ... Draw a bar chart on graph paper.	HD1/L1.2
G&C17	Yoga Classes ..... Introduction to line graphs.	HD1/L1.1
G&C18	Currency Conversion. .... Changing between pounds & dollars.	HD1/L1.1
G&C19	Temperature Conversions ..... Using a line graph, °F and °C.	HD1/L1.1
G&C20	Swimming Championships ..... Introduction to pie charts.	HD1/L1.1
G&C21	Pie Charts and Percentages .... Estimating sizes of sectors.	HD1/L1.1
G&C22	Angles in Pie Charts.. Learn how pie charts are drawn.	HD1/L1.2
G&C23	Drawing Pie Charts ... Working out the sector angles. Proportions.	HD1/L1.2

## Level 2

G&C24	Chocolate Consumption ... Comparing countries using a pictogram.	HD1/L2.1&2
G&C25	Drunk Driving ..... Estimating readings from a bar chart.	HD1/L2.1&2
G&C26	Jobs in the Home ..... Using and comparing 100% stacked bar charts.	HD1/L2.1
G&C27	Five Portions a Day ... Interpreting data from a table.	HD1/L2.1
G&C28	Cinema Visits ..... Using a line graph with three lines.	HD1/L2.1
G&C29	Core Body Temperature . .... A line graph with a decimal scale.	HD1/L2.1&2
G&C30	Changes in Diet ..... Draw line graphs to compare food consumption.	HD1/L2.2
G&C31	How many Bedrooms ? .. Drawing pie charts to compare proportions.	HD1/L2.2
G&C32	GCSE Grades ..... Drawing pie charts from data in percentages.	HD1/L2.2
G&C33	Transport Surveys ... Retrieving data from pie charts.	HD1/L2.1
G&C34	How much do People Drink ? ... Comparing proportions on pie charts.	HD1/L2.1

Draw your own Graph  
Graph Paper

# Data Handling : Contents

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## Data Sheet 1

DH1	Range .....	Definition and calculation of the range.	HD1/L1.4
DH2	Averages : The Mean .....	What the mean is and how to calculate it.	HD1/L1.3
DH3	Averages : The Mode .....	Finding and using the mode.	HD1/L2.3
DH4	Averages : The Median.....	For an odd number of values.	HD1/L2.3
DH5	Averages : The Median.....	For an even number of values.	HD1/L2.3

## Data Sheet 2

DH6	Using the Range .....	Looking at the effects of extreme values.	HD1/L1.4
DH7	Using the Mean .....	Does the mean represent the data fairly ?	HD1/L1.3
DH8	Comparing Data .....	Using the mean and range to compare data.	HD1/L1.3
DH9	Using Averages .....	Assessing data using averages and range.	HD1/L2.3
DH10	Mean Puzzles .....	Word problems to improve understanding.	HD1/L2.3
DH11	Making a Tally Chart ...	Using football results.	HD1/E3.3
DH12	Frequency Tables .....	Creating a table from a small set of data.	HD1/L1.2

## Data Sheet 3

DH13	Using Frequency Tables .....	to find the mode and range.	HD1/L2.3
DH14	Frequency Tables : The Mean ....	Calculating and interpreting .	HD1/L2.3
DH15	Finding the Median 1 .....	Find the middle value of large sets of data.	HD1/L2.3
DH16	Finding the Median 2 .....	Locate the middle value in a frequency table.	HD1/L2.3
DH17	Frequency Tables : The Median . ...	Practice using Data Sheet 3.	HD1/L2.3
DH18	Football Data .....	Analyse the data collected on sheet DH11.	HD1/L2.3
DH19	Comparing Frequency Tables.....	by using all three averages.	HD1/L2.3
DH20	Discrete and Continuous Data ...	Definitions. Distinguishing between.	HD1/L2.1
DH21	Collecting Grouped Data.....	When are goals scored in football ?	HD1/E3.3
DH22	Grouped Data.....	Create and use a frequency table.	HD1/L1.2

## Data Sheet 4 : Grouped Data

DH23	Looking at Grouped Data .....	Class-intervals, the modal group.	HD1/L2.3&1
DH24	The Median .....	Deciding which group the median lies in.	HD1/L2.3
DH25	The Mean .....	Using mid-interval values to estimate the mean.	HD1/L2.3
DH26	The Mean .....	Practise calculating estimates of the mean.	HD1/L2.3
DH27	Birth Weight Data... ..	Understanding continuous grouped data.	HD1/L2.3&2
DH28	Comparing Grouped Data ...	Using averages to draw conclusions.	HD1/L2.3
DH29	Collecting Data.....	Advice on carrying out a data collection exercise.	HD1/L1.2
DH30	Data Collection.....	Design data collection sheets.	HD1/L2.2

# Probability : Contents

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Prb1	Possibilities .....	Are events impossible, possible or certain to happen ?	HD2/L1.1
Prb2	Probability Scales .....	Place the probability of events on a scale from 0 to 1.	HD2/L1.2
Prb3	Possible Outcomes..	What might happen in different situations ?	HD2/L1.1
Prb4	Heads or Tails.. .....	Toss a coin 30 times and record what happens.	HD2/L1.1&2
Prb5	Rolling a Dice... .....	See what results you get from rolling one dice.	HD2/L1.1&2
Prb6	Calculating Probabilities..	of equally likely outcomes.	HD2/L1.2
Prb7	It Happens or It Doesn't.....	Calculating probabilities of complementary events.	HD2/L1.2
Prb8	Spinners.....	Using a probability scale to compare various events.	HD2/L1.1&2
Prb9	Bags of Beads..	Proportions matter more than quantities.	HD2/L1.1&2
Prb10	Pick a Card .....	Probabilities of selecting various types of playing cards.	HD2/L1.2
Prb11	Writing Probabilities .....	as fractions, decimals and percentages.	HD2/L1.2
Prb12	The National Lottery	Discuss common misconceptions about probability.	HD2/L1.1&2
Prb13	Rolling Two Dice .....	Record the results of the total score in a tally chart.	HD1/E3.3
Prb14	Two Dice Totals .....	Why do some totals occur more often than others ?	HD2/L2.1
Prb15	Two Dice Probabilities .....	Using the sample space diagram on Prb14.	HD2/L2.1
Prb16	Expected Outcomes.....	How often should events happen ?	HD2/L2.1
Prb17	Possible Outcomes .....	for two or three combined events.	HD2/L2.1
Prb18	Sample Spaces .....	Drawing tables to show all possible outcomes.	HD2/L2.1
Prb19	Tree Diagrams . .....	Complete the diagrams to show what may happen.	HD2/L2.1
Prb20	Tree Diagrams . .....	Draw trees to illustrate combinations of events.	HD2/L2.1
Prb21	Experimental Probability .....	Definition and calculations. Tally chart	GCSE
Prb22	Experimental Probability .....	Larger numbers of trials produce better results.	GCSE
Prb23	Mutually Exclusive Events.	Are these events mutually exclusive or not ?	GCSE
Prb24	The OR Rule .....	Calculate the probability of event A or event B happening.	GCSE
Prb25	Independent Events .....	What does it mean if events are independent ?	HD2/L2.1
Prb26	The AND Rule..	Work out the probability of two events both happening.	GCSE
Prb27	Probability Trees Example .....	Use a tree diagram to calculate probabilities.	GCSE
Prb28	Probability Trees .....	Find the probabilities of simple combined events.	GCSE
Prb29	Probability Trees .....	More demanding questions using sheet Prb19.	GCSE
Prb30	Probability Problems .....	Word problems involving combined events.	GCSE
Prb31	Conditional Probability...	Take two beads from a bag without replacing the first.	GCSE

**EXTRAS**     **Probability Scale** .... Enlarge and use for discussions.

**Pick a Card**.... Cut out the event cards for various activities.

# Algebra 1 : Contents

Adult Numeracy  
Core Curriculum  
Level

CLICK below

Standard  
Version

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Version

Alg1.1	Adding & Subtracting....Using symbols to stand for numbers	N1/L1.11
Alg1.2	Algebra : Multiplying ..... $ab$ means $a \times b$ . Simple formulas.	N1/L1.11
Alg1.3	Adding & Multiplying..... $n + n + n = 3n$ . Creating formulas.	N1/L2.4
Alg1.4	Dividing..... Writing divisions as fractions.	N1/L2.4
Alg1.5	Using Brackets .. Why brackets are used in arithmetic. Calculator use.	N1/L1.10
Alg1.6	Brackets in Calculations .... Choose a calculation to solve the problem.	N1/L1.10
Alg1.7	How Many Sweets ?.....Using and creating expressions like $3n + 5$ .	N1/L2.4
Alg1.8	Squaring and Cubing....Using index notation in algebra.	N1/L2.4
Alg1.9	More Multiplying .... Substituting values into expressions like $6ab$	N1/L2.4
Alg1.10	More Squaring..... Understanding what gets squared in $d = 5t^2$	N1/L2.4
Alg1.11	What to do First ?.. Evaluating $25 - 3b$ or $n^2 + 6$ for example.	N1/L2.4
Alg1.12	Where to Start ? ... Evaluating expressions involving fractions.	N1/L2.4
Alg1.13	Working with Fractions ... Work out the top & bottom before dividing.	N1/L2.4
Alg1.14	Algebra : Brackets .....Understanding expressions with brackets.	N1/L2.4
Alg1.15	Word Formulas .. .....Using simple formulas expressed in words.	N1/L2.4
Alg1.16	Body Mass Index.....Working out which category people belong to.	N1/L2.4
Alg1.17	Using Symbols .. .....Converting word formulas into algebra.	N1/L2.4
Alg1.18	Using Formulas . .....Substituting values into formulas.	N1/L2.4
Alg1.19	Algebra : Review 1 .....Basic Skills Level 2 assessment.	N1/L2.4
Alg1.20	Simplifying ..... Adding and subtracting like terms e.g. $3n + 2n$ .	GCSE
Alg1.21	Simplifying : Collecting Terms.....by changing the order.	
Alg1.22	Powers..... Using index notation for repeated multiplication.	
Alg1.23	Multiplying Expressions..... Simplifying for example $2a \times 3b$ .	
Alg1.24	Dividing Expressions .. ..... Algebraic fractions as divisions. Cancelling.	
Alg1.25	Functions ..... Introduction to using algebra to describe simple functions.	
Alg1.26	Two Step Functions.....More demanding functions.	
Alg1.27	Following Instructions.....to create expressions. Writing instructions.	
Alg1.28	Following Instructions.....Expressions involving brackets.	
Alg1.29	Substitution Practice.....Use your own values to substitute into expressions.	
Alg1.30	Practise Simplifying .....Mixed questions to review previous work.	
Alg1.31	Algebra : Review 2 .....How much have you learnt so far about algebra ?	

Matching Expressions..... Cut out the cards and find the equivalent expressions.

Matching Expressions..... Use as a worksheet or cut out the cards and match up.

Functions ..... Blank functions page for you to create your own worksheets.

# Algebra 2 : Contents

CLICK below

Standard  
Version

Colour  
Version

On Screen  
Version

All worksheets are at or below GCSE grade C level.

- Alg2.1 **Negative Number Calculations** . ... Revision of  $+$ ,  $-$ ,  $\times$  and  $\div$  rules.
- Alg2.2 **Adding and Subtracting** .. Substitution into expressions. Answers may be negative.
- Alg2.3 **Multiplying**..... Using numbers less than zero in multiplications.
- Alg2.4 **Squaring and Cubing**.... What happens when you start with negative numbers.
- Alg2.5 **Dividing** ..... Substitution into algebraic fractions. Simple equations.
- Alg2.6 **Temperature Conversions** ... Practical use of negative numbers in a formula.
- Alg2.7 **Square Roots**..... Using formulas that require square roots to be calculated.
- Alg2.8 **Substituting Negative Numbers** .. into expressions and simple equations.
- Alg2.9 **Substitution into Formulas**... Harder examples involving negative numbers.
- Alg2.10 **Simplifying** ..... expressions like  $2n - 7n$ ,  $-3a + 8a$  and  $-5t - 6t$ .
- Alg2.11 **Simplifying Expressions** ..... harder examples with negative coefficients.
- Alg2.12 **Simplifying : Collecting Terms** .. Expressions like  $-3 + 5n + 9 - 7n$ .
- Alg2.13 **Perimeter Formulas** . .... Creating and simplifying formulas by collecting terms.
- Alg2.14 **Collecting Like Terms**... Recognising and collecting like terms.
- Alg2.15 **Review**.....Mixed questions about simplifying and substitution.
- Alg2.16 **Functions** .....Revision of functions. Calculations using negative numbers.
- Alg2.17 **Inverse Functions** ... Recognising functions and their inverses.
- Alg2.18 **Doing and Undoing**.. Important preparation for solving equations.
- Alg2.19 **Doing and Undoing**.. expressions with two steps to do and undo.
- Alg2.20 **Undoing Simple Equations** .. .... Finding solutions by using inverse operations.
- Alg2.21 **Two Step Equations** .. Using two inverse operations to reach the solution.
- Alg2.22 **Creating Equations** .... to solve simple practical problems.
- Alg2.23 **Solving Puzzles** ... .. Writing equations to solve word puzzles.
- Alg2.24 **Using Equations** .. .. to solve geometrical problems.
- Alg2.25 **Harder Equations**. ... Solutions that are negative numbers, fractions or decimals.
- Alg2.26 **Solving Equations** ... of the type  $5a + 7 = 2a + 13$  by doing the same to both sides.
- Alg2.27 **Equations**..... More practice in solving harder types of equations.
- Alg2.28 **Equations with Fractions** ..... How to deal with the unknown being a denominator.
- Alg2.29 **Squaring and Unsquaring**..... Another pair of inverse operations.
- Alg2.30 **Simple Quadratic Equations** ... Solving by finding the square root of both sides.
- Alg2.31 **Algebra 2 : Review** . .... Challenging questions about equations & functions.
- Alg2.32 **Simplifying Practice** . .... A series of exercises that progress in difficulty.
- Alg2.33 **Practise Equations**... .... A variety of different types of equations for revision.

**Terms** Copy onto coloured card and cut out terms to use for reinforcement.

**Terms** More complicated terms to use for simplifying or other revision.

**Functions** Blank sheet for you to create your own worksheets on functions and their inverses.



- FC1 The Snack Shop ..... Calculations involving small amounts of money.
- FC2 Half Time Snacks ..... Money problems.
- FC3 The Souvenir Shop ..... Addition, subtraction and multiplication of money.
- FC4 Sticker Albums..... Mixed problems about buying football stickers.
- FC5 Buying a Team Strip ..... Comparing prices, an extended problem.
- FC6 Raising Money ..... Filling in a target scale, money calculations.
- FC7 Shirt Printing ..... Working out the cost of having names printed onto shirts.
- FC8 Replica Kits ..... Adding up prices with **99p** endings.
- FC9 Season Tickets ..... Comparing prices.
- FC10 Gate Money ..... Selecting relevant figures to perform calculations
- FC11 Football Time ..... Reading **clocks**. Time calculations.
- FC12 Extra Time ..... Time calculations.
- FC13 Choosing a New Kit ..... Working out the possible permutations for a kit design.
- FC14 Kit Designs ..... **Symmetry** of kit designs.
- FC15 The Family Enclosure ..... **Co-ordinates** locating seats in football stand.
- FC16 Football Pitches ..... Dimensions and **perimeters**. Distance calculations
- FC17 Large Crowds ..... Reading and writing 5 digit numbers.
- FC18 Huge Transfer Fees ..... Reading and writing 6 digit numbers.
- FC19 How Many Points ? ..... Working out the number of points a team has. Brackets.
- FC20 Puzzling Points ..... Problems which may or may not be solvable !
- FC21 Planning Fixtures ..... Arranging matches for a league of four teams.
- FC22 The Ribbleton League ..... Using information from a simple league table.
- FC23 League Champions 1 ..... Drawing up league tables given a set of results.
- FC24 League Champions 2 ..... Continuing from **F23** to find the champions.
- FC25 Goal Difference ..... **Negative numbers** in a practical context.
- FC26 League Tables ..... Working out numbers missing from a league table.
- FC27 Football Results ..... Interpreting football results from a newspaper cutting.
- FC28 Football League ..... Comprehension exercise based on a newspaper cutting.
- FC29 Collecting Stickers ..... **Probabilities** associated with buying packs of stickers.
- FC30 Cup Competition ..... Probabilities of different outcomes in a cup competition.
- FC31 Which Team is Better ? .... Comparing two teams using **bar charts** .
- FC32 Going Up and Down ..... **Line graphs** following the league position of Rovers.
- FC33 Attendance Figures ..... Comparing the attendances at two teams' matches.
- FC34 Goals Goals Goals ..... Frequency table about the number of goals per game.
- FC35 The Manager's Problem ... Interpreting a **grouped data frequency table** .
- FC36 The Leaky Defence ..... Using a grouped frequency table.
- FC37 Home and Away ..... Looking at **pie charts**. Estimation.
- FC38 Percentage Pie Charts ..... Calculating missing **percentages**. Estimation.
- FC39 Football Quizzes ..... Three **mental arithmetic** quizzes.
- FC40 More Football Quizzes ..... More demanding mental arithmetic questions.
- Certificate ..... Print onto card to reward progress.