

Scheme of Work - Numeracy

Level - Entry 3 to Level 2

26 Weeks

Wk	Details	CCR
1	<p>VARK - Learning style questionnaires</p> <p>Basics 1</p> <ul style="list-style-type: none"> • Odd and even numbers. Ordering numbers. • Large numbers - in words - place value. • Comparing Numbers. • Discuss < and > signs - less than / more than. • Addition and Subtraction. • Problem Solving in words. 	<p>N1/E3.1 N1/E3.2 N1/E3.8 N1/L1.1, 2 N1/L1.3 N1/L1.8 N1/L1.9 N1/L2.2</p>
2	<p>Basics 2</p> <ul style="list-style-type: none"> • Revise addition and subtraction basics. • Multiply & divide by multiples of 10, 100, etc. • Multiplication methods. Tables practise. Long multiplication. • Multiples - use times table squares. • Square numbers. • Factors. • Division methods. 	<p>N1/E3.4 N1/E3.6 N1/L1.4 N1/L1.5 N1/L1.6 N1/L1.8 N1/L1.9 N1/L2.2</p>
3	<p>Rounding it off</p> <ul style="list-style-type: none"> • Revise multiplication and division basics. • Practise place value up to 1000. • Rounding nos. to nearest, 10, 100, 1000. • Use price lists or pay slip samples for money rounding to nearest 10p, £1, £5 etc. • Cover up to one decimal place. 	<p>MSS1/E3.1 MSS1/E3.2 N1/E3.7 N1/L1.8 N1/L1.9 N1/L2.2</p>
4	<p>All sorts of numbers</p> <ul style="list-style-type: none"> • Revise rounding with numbers and money. • Multiples, factors, common factors. • Square numbers, cubes (use bricks), roots, powers (indices). • Negative numbers - use number lines. Ordering. Temperature - measuring. • Use black / red disks to demonstrate adding and subtracting negative numbers. • Add and subtract negative numbers. • Money problems. 	<p>MSS1/E3.1 MSS1/E3.2 MSS1/L1.4 MSS1/L2.4 N1/E3.9 N1/L1.2, 4 N1/L1.5, 6 N1/L2.1, 2 N2/E3.3</p>
5	<p>Time to calculate</p> <ul style="list-style-type: none"> • Revise negative numbers. • Using a Calculator. BIDMAS - what is it? Use calculators to work out gross pay. • Dates - calendars, time, converting. 12 and 24 hour clocks. Using timetables. • Using TV schedules in newspapers etc. Calculating with time. Practical uses. • Revisit addition, subtraction, multiplication, division basics. • Revisit rounding and negative numbers. • Practise sheets covering all skills learnt so far. 	<p>MSS1/E3.1 MSS1/E3.3, 6 MSS1/L1.2, 3 MSS1/L2.2 N1/E3.9 N2/E3.3 N2/E3.4 N1/L2.4</p>

6	Fractions 1 <ul style="list-style-type: none"> • Revise time and negative numbers basics. • Fractions – Intro, Use in Everyday Life. • Fractions of shapes and quantities - what are the basic rules? • Fractions in words and problems in words. • Simplifying fractions – how can we relate this to equivalents? • Equivalent fractions – what does this mean and how can we work it out? 	N2/E3.1 N2/E3.2 N2/E3.3 N2/L1.1 N2/L1.2 N2/L2.1 N2/L2.3
7	Fractions 2 <ul style="list-style-type: none"> • Revise fractions basic rules. • Ordering fractions. • Rounding fractions. • Add and subtract fractions. • Multiply and divide fractions. 	N2/L1.4 N2/L1.7 N2/L2.3 N2/L2.4 N2/L2.5 N2/L2.10
8	Decimals 1 <ul style="list-style-type: none"> • Revise fraction calculating basics. • Decimals – Intro, Using Decimals in everyday life. • Place value and ordering of decimals. • Multiplying and dividing decimals by 10, 100, 1000. • Rounding decimals to nearest whole no, and significant figure. 	MSS1/L1.1 N1/L1.1 N2/L1.4 N2/L1.7 N2/L1.11 N2/L2.5
9	Decimals <ul style="list-style-type: none"> • Revise decimal basics. • Add and subtract decimals. • Multiplying decimals. • Using a calculator and converting currency. • Convert between decimals and fractions. 	MSS1/L1.1 MSS1/L2.1, 10 N2/L1.5, 6 N2/L1.11 N2/L2.2, N2/L2.5, 6
10	Percentages 1 <ul style="list-style-type: none"> • Revise decimal calculating basics. • What are percentages? Uses in real life – discounts, sale prices VAT etc. • Percentages – finding percentage parts and percentages of amounts. • Ordering percentages. • Comparing Fractions, Decimals and Percentages. 	MSS1/L1.1 N2/L1.3, 6 N2/L1.8, 9 N2/L1.10 N2/L1.11 N2/L2.10
11	Percentages 2 <ul style="list-style-type: none"> • Revise percentages basics. • Percentages of amounts. • Calculating VAT. • Increases and Decreases in percentages. • Convert percentages to fractions. • Convert percentages to decimals. 	MSS1/L1.1 N1/L2.9 N2/L1.4, 7 N2/L1.9, 10 N2/L1.11 N2/L2.5 N2/L2.7, 8 N2/L2.9, 10
12	Fractions, Decimals and Percentages <ul style="list-style-type: none"> • Revise percentage calculation basics. • Convert fractions to percentages. • Convert fractions to decimals. • Convert decimals to fractions. • Convert decimals to percentages. • Practise percentage exam questions. 	N2/L1.9 N2/L1.10 N2/L2.2 N2/L2.7 N2/L2.8 N2/L2.9 N2/L2.10

13	Ratio and Proportion <ul style="list-style-type: none"> • Revise fraction, decimal, percentage calculation basics. • Introduce ratios and proportion • Simplifying ratios • Problem solving • Scales - use local Ordnance Survey maps 	HD1/L1.1 MSS1/L2.10 N1/L1.7 N1/L2.3 N2/L1.2
14	Measure 1 <ul style="list-style-type: none"> • Revise ratio and proportion. • Units of measurement - imperial and metric. • Abbreviations for the metric system. • Length, Weight and Capacity - Liquids, Distances - how do we measure them? • Estimate lengths and width of basic shapes. • Estimate length, width, volume and capacity of everyday items. 	MSS1/E3.5, 6 MSS1/E3.7, 8 MSS1/E3.9 MSS1/L1.2 N2/E3.3 MSS1/L1.3 MSS1/L1.4 MSS1/L2.2 MSS1/L2.3
15	Measure 2 <ul style="list-style-type: none"> • Revise measure basics. • Revisit multiplying and dividing decimals by 10, 100, 1000 etc. • Converting within the metric system. • Measuring distances on maps, tables etc. • Conversion charts. • Conversion in currency. 	MSS1/L1.5, 6 MSS1/L1.7 MSS1/L2.2 MSS1/L2.3 MSS1/L2.5 MSS1/L2.6
16	2D and 3D Shapes 1 <ul style="list-style-type: none"> • Revise converting in the metric system. • Names and descriptions of basic 2D and 3D shapes. • Quiz on 2D and 3D shapes - give descriptions to guess. • Introduce perimeter - what is it. Measure perimeters using string and rulers. • Using length and width to find area of squares, rectangles, triangles. 	MSS1/L1.8 MSS1/L1.10 MSS1/L2.1 MSS1/L2.10
17	2D and 3D Shapes 2 <ul style="list-style-type: none"> • Revise 2D and 3D shape basics. • Measuring radius and diameter of a circle and area of a circle • Volume of cuboids, cylinders and spheres • Tessellation - what is it? Why is it useful? • Symmetry basics - reflective and rotational. 	MSS2/E3.1, 2 MSS1/L1.4 MSS1/L1.6, 7 MSS1/L1.8, 9 MSS1/L2.5, 7 MSS1/L2.2, 9 MSS1/L2.1, 8 MSS2/L1.1, 7 MSS2/L2.8, 9
18	Angles <ul style="list-style-type: none"> • Revise area and volume of shapes. • Compass points and directions. • Angle types - acute, obtuse, right, reflex angles. • Angle around a point, straight line, opposite angles. • Construct and measure angles. • Parallel lines. 	MSS2/L1.1 MSS2/L2.1 MSS2/L2.2
19	Collect, Sorting and Recording Data / <ul style="list-style-type: none"> • Revise angles. • Data - use in everyday life - examples? What sort of data can we use? • Obtaining information from plans and lists. • Obtaining and interpreting data from tables / databases • Tally/ frequency charts - completing and practise. 	HD1/E3.1 HD1/E3.3 HD1/L1.1 HD1/L2.1 HD1/L2.2

20	Charts and Graphs 1 <ul style="list-style-type: none"> • Revise obtaining and interpreting data from tables. • Discrete and continuous data. • Bar charts and pictograms. • Line graphs, dual bar charts and line graphs with more than one set of data. 	HD1/E3.2 HD1/E3.4 HD1/L1.2 HD1/L2.1 HD1/L2.2 MSS1/L2.4
21	Pie charts <ul style="list-style-type: none"> • Revise bar charts and pictograms. • Revisit angles. • Constructing pie charts. • Extracting data from pie charts. 	HD1/L1.1 HD1/L2.1 HD1/L2.2
22	Writing Questionnaires <ul style="list-style-type: none"> • What to use them for? • What information can we gather? • Practice writing questions. • Collecting data – how can we represent it? • Creating a suitable chart. 	HD1/L1.2 N2/L2.10
23	Averages 1 <ul style="list-style-type: none"> • Revise pie charts. • Averages – what does that mean? Real life examples • Calculating the mean – how do we work it out? Practise. • Range - What is it? Why is it useful? • Calculating the range. 	HD1/L1.3 HD1/L1.4 HD1/L1.3 HD1/L1.4
24	Averages 2 <ul style="list-style-type: none"> • Revise calculating the mean and the range. • Median – what is it? Why is it useful? • Calculating the median. • Mode – what is it? Why is it useful? • Calculating the mode. • Practise questions covering all 4 average forms. 	HD1/L1.3 HD1/L1.4 HD1/L2.3 HD1/L2.4
25	Probability <ul style="list-style-type: none"> • Probability – what is it? – Likelihood of events. • Real life examples. • Express as fractions. decimals or %. • Use sweets, dice or coins to demonstrate – students to conduct their own probability experiments • Calculating probability. • Tree diagrams. 	HD1/L1.1 HD1/L1.2 HD1/L2.1 HD2/L1.1 HD2/L1.2 HD2/L2.1 N2/L2.3
26	Using Formulae <ul style="list-style-type: none"> • What is a formula? • Why do we need to use it? • Different letters for different amounts. • Simple calculations. • Extended practice with real life situations. 	N1/L2.4 N2/L2.10