## Numeracy Objectives of 2014 National Curriculum for EYFS

|  | S0/1 | 1 | Recognise some numerals of personal significance and numerals 1 to 5 . |
| :---: | :---: | :---: | :---: |
|  | S0/2 | 2 | Counts up to three or four objects by saying one number name for each item. |
|  | S0/3 | 3 | Counts objects to 10, and beginning to count beyond 10 . |
|  | S0/4 | 4 | Counts out up to six objects from a larger group. |
|  | S0/5 | 5 | Selects the correct numeral to represent 1 to 5, then 1 to 10 objects. |
|  | S0/6 | 6 | Counts an irregular arrangement of up to ten objects. |
|  | S0/7 | 7 | Estimates how many objects they can see and checks by counting them. |
|  | S0/8 | 8 | Uses the language of 'more' and 'fewer' to compare two sets of objects. |
|  | S0/9 | 9 | Finds the total numbers of items in two groups by counting all of them. |
|  | S0/10 | 10 | Says the number that is one more than a given number. |
|  | S0/11 | 11 | Finds one more or one less from a group of up to five objects, then ten objects. |
|  | S0/12 | 12 | Uses positional language. |
|  | S0/13 | 13 | Beginning to talk about the shapes of everyday objects, e.g. 'round' and 'tall'. |
|  | S0/14 | 14 | Beginning to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes or to select a particular named shape. |
|  | S0/15 | 15 | Can describe their relative position such as 'behind' or 'next to'. |
|  | S0/16 | 16 | Orders two or three items by length or height. |
|  | S0/17 | 17 | Orders two items by weight or capacity. |
|  | S0/18 | 18 | Uses everyday language related to time. |
|  | S0/19 | 19 | Beginning to use everyday language related to money. |
|  | S0/20 | 20 | Orders and sequence familiar events. |

## Numeracy Objectives of 2014 National Curriculum for Year 1

|  | S1/1 | 1 | Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals. |
| :---: | :---: | :---: | :---: |
|  | S1/2 | 2 | Count in multiples of twos, fives and tens. |
|  | S1/3 | 3 | Given a number, identify one more and one less. |
|  | S1/4 | 4 | Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. |
|  | S1/5 | 5 | Read and write numbers from 1 to 20 in numerals and words. |
| $\begin{aligned} & \frac{0}{亏} \\ & \frac{0}{n} \\ & \frac{0}{c} \end{aligned}$ | S1/6 | 6 | Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. |
|  | S1/7 | 7 | Represent and use number bonds and related subtraction facts within 20. |
|  | S1/8 | 8 | Add and subtract one-digit and two-digit numbers to 20, including zero. |
|  | S1/9 | 9 | Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\ldots-9$. |
| $\frac{ \pm}{5}$ | S1/10 | 10 | Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. |
|  | S1/11 | 11 | Recognise, find and name a half as one of two equal parts of an object, shape or quantity. |
|  | S1/12 | 12 | Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. |
| $\begin{aligned} & \stackrel{\nu}{3} \\ & \tilde{\tilde{0}} \\ & \stackrel{0}{\infty} \end{aligned}$ | S1/13 | 13 | Compare, describe \& solve practical probs for: lengths/heights (long/short/tall, half/double); mass/weight (heavier/lighter); capacity/volume (full/empty, more/less); time (quicker/slower/later). |
|  | S1/14 | 14 | Measure and begin to record the following: lengths/heights; mass/weight; capacity/volume; time (hours, minutes, seconds). |
|  | S1/15 | 15 | Recognise and know the value of different denominations of coins and notes. |
|  | S1/16 | 16 | Sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. |
|  | S1/17 | 17 | Recognise and use language relating to dates, including days of the week, weeks, months and years. |
|  | S1/18 | 18 | Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. |
| $\begin{aligned} & Z \\ & \vdots \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | S1/19 | 19 | Recognise and name common 2-D shapes (e.g. rectangles, circles and triangles) and 3-D shapes (e.g. cuboids (including cubes), pyramids and spheres). |
|  | S1/20 | 20 | Describe position, directions and movements, including whole, half, quarter and three-quarter turns. |

## Numeracy Objectives of 2014 National Curriculum for Year 2

|  | S2／1 | 1 | Count in steps of 2，3，and 5 from 0，and in tens from any number，forward or backward． |
| :---: | :---: | :---: | :---: |
|  | S2／2 | 2 | Recognise the place value of each digit in a two－digit number（tens，ones）． |
|  | S2／3 | 3 | Identify，represent and estimate numbers using different representations，inc．the number line． |
|  | S2／4 | 4 | Compare and order numbers from 0 up to 100；use＜，＞and＝signs． |
|  | S2／5 | 5 | Read and write numbers to at least 100 in numerals and in words． |
| $\begin{aligned} & \frac{0}{\overrightarrow{3}} \\ & \frac{\overline{7}}{6} \end{aligned}$ | S2／6 | 6 | Solve problems with addition and subtraction：using concrete objects and pictorial representations； applying their increasing knowledge of mental and written methods． |
|  | S2／7 | 7 | Recall and use add and subtract facts to 20 fluently，and derive and use related facts up to 100 ． |
|  | S2／8 | 8 | Add and sub nos using concrete objects，pictorial representations，and mentally，including：a 2－digit no and 1s or 10 s；two 2 －digit numbers；adding three 1 －digit numbers． |
|  | S2／9 | 9 | Show that addition of two numbers can be done in any order（commutative）and subtraction of one number from another cannot． |
|  | S2／10 | 10 | Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems． |
|  | S2／11 | 11 | Recall and use multiplication and division facts for the 2，5 and 10 multiplication tables，including recognising odd and even numbers． |
|  | S2／12 | 12 | Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication（×），division（ $\because$ ）and equals（＝）signs． |
|  | S2／13 | 13 | Show that multiplication of two numbers can be done in any order（commutative）and division of one number by another cannot． |
|  | S2／14 | 14 | Solve problems involving multiplication and division，using materials，arrays，repeated addition， mental methods，and multiplication and division facts，including problems in contexts． |
| 茫 | S2／15 | 15 | Recognise，find，name，write $1 / 3,1 / 4,2 / 4,3 / 4$ of a length，shape，set of objects or quantity． |
|  | S2／16 | 16 | Write simple fractions e．g． $1 / 2$ of $6=3$ and recognise the equivalence of $2 / 4$ and $1 / 2$ ． |
| $\begin{aligned} & \stackrel{\tilde{訁}}{ } \\ & \stackrel{\rightharpoonup}{0} \\ & \stackrel{\Sigma}{\Sigma} \end{aligned}$ | S2／17 | 17 | Choose／use appropriate stand units to estimate／measure length／height（ $\mathrm{m} / \mathrm{cm}$ ）；mass（ $\mathrm{kg} / \mathrm{g}$ ）；temp （ ${ }^{\circ} \mathrm{C}$ ）；cap（litres／ml）to nearest unit，using rulers，scales，thermometers and measuring vessels． |
|  | S2／18 | 18 | Compare and order lengths，mass，volume／capacity and record the results using $\geqslant,<$ and $=$ ． |
|  | S2／19 | 19 | Recognise and use symbols for pounds（ $£$ ）and pence（ p ）；combine amounts to make a particular value．Find different combinations of coins that equal the same amounts of money． |
|  | S2／20 | 20 | Solve simple problems in a practical context involving addition and subtraction of money of the same unit，including giving change． |
|  | S2／21 | 21 | Compare and sequence intervals of time． |
|  | S2／22 | 22 | Tell and write the time to five minutes，including quarter past／to the hour and draw the hands on a clock face to show these times． |
|  | S2／23 | 23 | Identify and describe the properties of 2－D shapes，including number of sides，symmetry in a vertical line． |
|  | S2／24 | 24 | Identify and describe the properties of 3－D shapes，including number of edges，vertices，faces． |
|  | S2／25 | 25 | Identify 2－D shapes on the surface of 3－D shapes，for example a circle on a cylinder and a triangle on a pyramid． |
|  | S2／26 | 26 | Compare and sort common 2－D and 3－D shapes and everyday objects． |
|  | 52／27 | 27 | Order \＆arrange combinations of mathematical objects in patterns \＆sequences． |
|  | S2／28 | 28 | Use math vocab to describe position，direction \＆movement inc movement in a straight line and distinguishing rotation as a turn $\&$ in terms of right angles for $1 / 4,1 / 2, \& 3 / 4$ turns（clock／anti－clockwise）． |
| 菏 | S2／29 | 29 | Interpret and construct simple pictograms，tally charts，block diagrams and simple tables． |
|  | S2／30 | 30 | Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity；ask and answer questions about totalling and comparing categorical data． |

## Numeracy Objectives of 2014 National Curriculum for Year 3

| $\begin{aligned} & \frac{0}{\sqrt{n}} \\ & \frac{1}{2} \\ & \frac{\ddot{\pi}}{0} \end{aligned}$ | S3/1 | 1 | Count from 0 in multiples of 4, 8, 50 and 100. Find 10 or 100 more or less than a given number. |
| :---: | :---: | :---: | :---: |
|  | S3/2 | 2 | Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). |
|  | S3/3 | 3 | Compare and order nos up to 1000. Read and write nos up to 1000 in numerals and in words. |
|  | S3/4 | 4 | Identify, represent and estimate numbers using different representations. |
|  | S3/5 | 5 | Solve number problems and practical problems involving these ideas. |
| $\begin{aligned} & \text { 은 } \\ & \frac{0}{6} \end{aligned}$ | S3/6 | 6 | Add and subtract numbers mentally, including: a 3-digit no and 1s, 10s, 100s. |
|  | S3/7 | 7 | Add and sub numbers with up to 3 digits, using formal written methods of columnar add and sub. |
|  | S3/8 | 8 | Estimate the answer to a calculation and use inverse operations to check answers. |
|  | S3/9 | 9 | Solve probs, inc missing no probs, using number facts, place value, and more complex add/sub. |
| $\frac{\lambda}{i}$ | S3/10 | 10 | Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables. |
|  | S3/11 | 11 | Write \& calc math statements for $\mathrm{x} \& \div$ using the tables they know, including 2 digit numbers times 1-digit numbers, using mental \& formal written methods. |
|  | S3/12 | 12 | Solve probs \& missing number probs, involving $x \& \div$, including integer scaling probs \& correspondence probs in which $n$ objects are connected to $m$ objs. |
| $\begin{aligned} & \text { n } \\ & \stackrel{H}{U} \\ & \frac{\pi}{4} \end{aligned}$ | S3/13 | 13 | Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts \& in dividing one-digit numbers or quantities by 10. |
|  | S3/14 | 14 | Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. |
|  | S3/15 | 15 | Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. |
|  | S3/16 | 16 | Recognise and show, using diagrams, equivalent fractions with small denominators. |
|  | S3/17 | 17 | Add and sub fractions with the same denominator within one whole (e.g. $5 / 7+1 / 7=6 / 7$ ). |
|  | S3/18 | 18 | Compare and order unit fractions, and fractions with the same denominators. |
|  | S3/19 | 19 | Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity (1/ml). |
|  | S3/20 | 20 | Measure the perimeter of simple 2-D shapes. |
|  | S3/21 | 21 | Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
|  | S3/22 | 22 | Tell/write the time from an analogue clock, inc Roman numerals from I to XII, and 12-hr/24-hr. |
|  | S3/23 | 23 | Est. \& read time with increasing acc. to nearest min; record/compare time in secs, mins, hrs. Use vocab such as o'clock, a.m/p.m, morn, aft, noon\&midnight. |
|  | S3/24 | 24 | Know the no of seconds in a minute and the number of days in each month, year and leap year. |
| $\begin{aligned} & \text { Z } \\ & \stackrel{0}{*} \\ & 0 \\ & 0 \end{aligned}$ | S3/25 | 25 | Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. |
|  | S3/26 | 26 | Recognise that angles are a property of shape or a description of a turn. |
|  | S3/27 | 27 | Iden. right angles, recog that 2 right angles make a $1 / 2$ turn, 3 make $3 / 4$ of a turn $\& 4$ a comp. turn. Iden whether angs. are greater or less than a right ang. |
|  | S3/28 | 28 | Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. |
| $\begin{aligned} & \stackrel{n}{4} \\ & \stackrel{y}{*} \end{aligned}$ | S3/29 | 29 | Interpret and present data using bar charts, pictograms and tables. |
|  | S3/30 | 30 | Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using info presented in scaled bar charts \& pictograms \& tables. |

## Numeracy Objectives of 2014 National Curriculum for Year 4

| $\begin{aligned} & \stackrel{\cong}{\tilde{N}} \\ & \stackrel{N}{\widetilde{N}} \\ & \stackrel{\sim}{0} \end{aligned}$ | S4/1 | 1 | Count in multiples of 6, 7, 9, 25 and 1000. |
| :---: | :---: | :---: | :---: |
|  | S4/2 | 2 | Find 1000 more or less than a given number. Round any number to the nearest 10,100 or 1000. |
|  | 54/3 | 3 | Count backwards through zero to include negative numbers. |
|  | S4/4 | 4 | Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones). Order and compare numbers beyond 1000 . |
|  | S4/5 | 5 | Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. |
| 을 | S4/6 | 6 | Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. |
|  | S4/7 | 7 | Estimate and use inverse operations to check answers to a calculation. |
|  | 54/8 | 8 | Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |
| $\stackrel{3}{5}$ | S4/9 | 9 | Recall multiplication and division facts for multiplication tables up to $12 \times 12$. |
|  | S4/10 | 10 | Recognise and use factor pairs and commutativity in mental calculations. |
|  | S4/11 | 11 | Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. |
|  | S4/12 | 12 | Solve probs involving x and + , inc. using the distributive law to mult 2 digit nos by 1 digit, integer scaling probs and harder correspondence probs such as n objects are connected to m objects. |
|  | S4/13 | 13 | Recognise and show, using diagrams, families of common equivalent fractions. |
|  | S4/14 | 14 | Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten. |
|  | S4/15 | 15 | Add and subtract fractions with the same denominator. |
|  | S4/16 | 16 | Recognise and write decimal equivalents of any number of tenths or hundredths; and the decimal equivalents to $1 / 4,1 / 2$ and three quarters. |
|  | S4/17 | 17 | Find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths. |
|  | S4/18 | 18 | Round decimals with one decimal place to the nearest whole number. Solve simple measure and money problems involving fractions and decimals to 2 decimal places. |
|  | S4/19 | 19 | Convert between different units of measure (e.g. kilometre to metre). Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days). |
|  | S4/20 | 20 | Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares. |
|  | S4/21 | 21 | Estimate, compare and calculate different measures, including money in pounds and pence. |
|  | S4/22 | 22 | Read, write and convert time between analogue and digital 12 and 24-hour clocks. |
| 2 | S4/23 | 23 | Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. |
|  | S4/24 | 24 | Identify acute and obtuse angles and compare and order angles up to two right angles by size. |
|  | S4/25 | 25 | Identify lines of symmetry in 2-D shapes presented in different orientations. |
|  | S4/26 | 26 | Complete a simple symmetric figure with respect to a specific line of symmetry. |
|  | S4/27 | 27 | Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. |
|  | 54/28 | 28 | Plot specified points and draw sides to complete a given polygon. |
| - | S4/29 | 29 | Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. |
|  | S4/30 | 30 | Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |

Numeracy Objectives of 2014 National Curriculum for Year 5

|  | s5/1 | 1 | Read, write, order \& compare numbers to at least 1000000 and determine the value of each digit. |
| :---: | :---: | :---: | :---: |
|  | 55/2 | 2 | Count forwards or backwards in steps of powers of 10 for any given number up to 1000000 . Round any number up to 1000000 to the nearest $10,100,1000,10000$ and 100000 . |
|  | S5/3 | 3 | Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. |
|  | 55/4 | 4 | Read Roman numerals to 1000 ( M ) and recognise years written in Roman numerals. |
| $\begin{array}{\|l\|} \hline \frac{9}{3} \\ \stackrel{y}{c} \\ \stackrel{7}{4} \end{array}$ | S5/5 | 5 | Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). |
|  | S5/6 | 6 | Add |
|  | S5/7 | 7 | Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |
| $\stackrel{\Sigma}{\Sigma}$ | S5/8 | 8 | Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |
|  | S5/9 | 9 | Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19. |
|  | S5/10 | 10 | Multiply numbers up to 4 digits by a 1 - or 2 -digit number using a formal written method. Divide numbers up to 4 digits by a 1 -digit number using the formal written method of short division. |
|  | 55/11 | 11 | Multiply and divide whole numbers and those involving decimals by 10,100 and 1000. |
|  | 55/12 | 12 | Recognise and use square numbers and cube numbers, and the notation for squared and cubed. |
|  | S5/13 | 13 | Compare and order fractions whose denominators are all multiples of the same number. Add and subtract fractions with the same denominator and multiples of the same number. |
|  | S5/14 | 14 | Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. |
|  | S5/15 | 15 | Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number. |
|  | S5/16 | 16 | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
|  | S5/17 | 17 | Round decimals with two decimal places to the nearest whole number and to one decimal place. |
|  | S5/18 | 18 | Read, write, order and compare numbers with up to three decimal places. Solve problems involving number up to three decimal places. |
|  | S5/19 | 19 | Solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those with a denominator of a multiple of 10 or 25 . |
| ¢ | 55/20 | 20 | Convert between different units of metric measure (e.g. km \& $\mathrm{m} ; \mathrm{cm} \& \mathrm{~m} ; \mathrm{cm}$ \& $\mathrm{mm} ; \mathrm{g}$ \& kg; l \& ml ). Use approx. equivalences between metric and imperial units (e.g. inches, pounds \& pints). |
|  | 55/21 | 21 | Measure \& calculate the perimeter of composite rectilinear shapes in $\mathrm{cm} / \mathrm{m}$. Calculate the area of squares $/$ rectangles using standard units, square $\mathrm{cm} / \mathrm{m}$ and estimate the area of irregular shapes. |
|  | 55/22 | 22 | Estimate volume (e.g. using 1 cm blocks to build cubes/cuboids) and capacity (e.g. using water). |
|  | S5/23 | 23 | Solve probs involving converting between units of time. Use all four operations to solve probs involving measure (e.g. length, mass, volume, money) using decimal notation including scaling. |
|  | 55/24 | 24 | Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. |
|  | S5/25 | 25 | Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees. |
|  | 55/26 | 26 | Identify: angles at a point and one whole turn (total $360^{\circ}$ ); angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ); other multiples of $90^{\circ}$. |
|  | 55/27 | 27 | Use the properties of rectangles to deduce related facts and find missing lengths and angles. |
|  | S5/28 | 28 | Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. |
| H | 55/29 | 29 | Solve comparison, sum and difference problems using information presented in a line graph. |
|  | 55/30 | 30 | Complete, read and interpret information in tables, including timetables. |

## Numeracy Objectives of 2014 National Curriculum for Year 6

| $\begin{aligned} & \frac{0}{3} \\ & \frac{1}{\pi} \\ & \frac{0}{0} \\ & \frac{\pi}{a} \end{aligned}$ | S6/1 | 1 | Read, write, order and compare numbers up to 10000000 and determine the value of each digit. Round any whole number to a required degree of accuracy |
| :---: | :---: | :---: | :---: |
|  | S6/2 | 2 | Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above. |
|  | S6/3 | 3 | Multiply and divide numbers up to 4 digits by a 2-digit whole number using the formal written methods and interpret remainders as whole number remainders, fractions, or by rounding. Use of estimation to check answers to calculations |
|  | S6/4 | 4 | Identify common factors, common multiples and prime numbers |
|  | S6/5 | 5 | Use their knowledge of the order of operations to carry out calculations involving the four operations |
|  | S6/6 | 6 | Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |
| $\begin{aligned} & \text { n } \\ & \stackrel{C}{0} \\ & \text { UT } \\ & \frac{\pi}{4} \end{aligned}$ | S6/7 | 7 | Use common factors to simplify fractions; use common multiples to express fractions in the same denomination |
|  | S6/8 | 8 | Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions |
|  | S6/9 | 9 | Multiply simple proper fractions and simplify the answer (e.g. $1 / 4,1 / 2,1 / 8$ ). Divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=1 / 6$ ) |
|  | S6/10 | 10 | Identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places |
|  | S6/11 | 11 | Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places |
|  | S6/12 | 12 | Recall and use equivalences between simple fractions, decimals, percentages, incl. different contexts. |
| $\begin{aligned} & \square \\ & \infty \\ & \propto \end{aligned}$ | S6/13 | 13 | Solve problems involving the calculation of percentages (e.g. of measures) such as $15 \%$ of 360 and the use of percentages for comparison |
|  | S6/14 | 14 | Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. |
|  | S6/15 | 15 | Express missing number problems algebraically. Use simple formulae expressed in words. |
|  | S6/16 | 16 | Generate and describe linear number sequences. |
|  | S6/17 | 17 | Find pairs of numbers that satisfy number sentences involving two unknowns. Enumerate all possibilities of combinations of two variables. |
|  | S6/18 | 18 | Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Convert between miles and km. |
|  | S6/19 | 19 | Use, read, write \& convert between standard units of measure, converting length, mass, volume \& time from smaller to larger units, and vice versa, using decimal notation to up to 3 dec places |
|  | S6/20 | 20 | Recognise that shapes with the same areas can have different perimeters and vice versa |
|  | S6/21 | 21 | Calculate the area of parallelograms and triangles. Recognise when it is possible to use formulae for area and volume of shapes |
|  | S6/22 | 22 | Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\mathrm{cm}^{3}$ ) and cubic metres $\left(\mathrm{m}^{3}\right)$, and extending to other units |
| ?UE000 | S6/23 | 23 | Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. |
|  | S6/24 | 24 | Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. |
|  | S6/25 | 25 | Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. |
|  | S6/26 | 26 | Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. |
| $\begin{aligned} & 0 \\ & \infty \\ & 0 \end{aligned}$ | S6/27 | 27 | Describe positions on the full coordinate grid (all four quadrants). |
|  | S6/28 | 28 | Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |
| $$ | S6/29 | 29 | Interpret and construct pie charts and line graphs and use these to solve problems. |
|  | S6/30 | 30 | Calculate and interpret the mean as an average. |

