



|  | > Make doubles <br> > Make equal groups grouping <br> > Make equal groups sharing | Introduce the multiplication symbol <br> > Multiplication sentences <br> > Use arrays <br> > Make equal groups - grouping <br> > Make equal groups - sharing <br> > The 2 times-table <br> > Divide by 2 <br> > Doubling and halving <br> > Odd and even numbers <br> > The 10 times-table <br> > Divide by 10 <br> > The 5-times table <br> $>$ Divide by 5 <br> > The 5 and 10 times-tables | $>$ Sharing and grouping <br> > Multiply by 3 <br> $>$ Divide by 3 <br> > The 3-times table <br> > Multiply by 4 <br> $>$ Divide by 4 <br> > The 4-times table <br> > Multiply by 8 <br> $>$ Divide by 8 <br> > The 8-times table <br> > The 2, 4 and 8 <br> times-tables <br> > Multiples of 10 <br> $>$ Related <br> calculations <br> Reasoning about multiplication <br> Multiplying a 2digit number by a 1-digit number no exchange <br> > Multiplying a 2digit number by a 1-digit number with exchange Link multiplication and division <br> Divide a 2-digit number by a 1digit number - no exchange <br> Divide a 2-digit number by a 1digit numberflexible partitioning <br> $>$ Divide a 2-digit number by a 1digit number with remainders <br> $>$ Scaling <br> $>$ How many ways? | 9 times-table and division facts <br> - The 3, 6 and 9 times tables <br> > Multiply and divide by 7 <br> > 7 times-table and division facts <br> > 11 times-table and division facts <br> > 12 times-table and division facts <br> > Multiply by 1 and 0 <br> > Divide a number by 1 and itself <br> > Multiply three numbers <br> > Factor pairs <br> > Use factor pairs <br> > Multiply by 10 <br> > Multiply by 100 <br> > Divide by 10 <br> > Divide by 100 <br> > Related facts multiplication and division <br> > Informal written methods for multiplication <br> > Multiply a 2-digit number by a 1digit number <br> > Multiply a 3-digit number by a 1digit number <br> > Divide a 2-digit number by a 1digit number (1) <br> > Divide a 2-digit number by a 1digit number (2) <br> > Divide a 3-digit number by a 1digit number <br> > Correspondence problems | Multiply by 10, 100 and 1,000 <br> > Divide by 10,100 and 1,000 <br> > Multiples of 10, 100 and 1,000 <br> > Multiply up to a 4digit number by a 1-digit number <br> > Multiply a 2-digit number by a 2-digit number (area model) <br> > Multiply a 2-digit number by a 2-digit number <br> > Multiply a 3-digit number by a 2-digit number <br> > Multiply a 4-digit number by a 2-digit number <br> > Solve problems with multiplication <br> > Short division <br> $>$ Divide a 4-digit number by a 1-digit number <br> > Divide with remainders <br> $>$ Efficient division <br> > Solve problems with multiplication and division | $>$ Square and <br> cube numbers , |
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| and Temperature <br> Measurement | > Compare capacity | Four operations with mass <br> Compare volume and capacity <br> Measure in millilitres <br> Measure in litres Four operations with volume and capacity Temperature | Measure mass in kilograms and grams <br> Equivalent masses <br> (kilograms and grams) <br> Compare mass <br> > Add and subtract mass <br> Measure capacity and volume in millilitres <br> Measure capacity and volume in <br> litres and millilitres <br> Equivalent capacities and volumes (litres and millilitres) <br> Compare capacity and volume Add and subtract capacity and volume |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Converting Units <br> Measurement |  |  |  |  | Kilograms and <br> kilometres <br> Millimetres and millilitres <br> Convert unit of length <br> Convert between metric and imperial units <br> Convert units of time <br> Calculate with timetables | Metric <br> measures <br> Convert <br> metric <br> measures <br> Calculate with metric measures Miles and kilometres Imperial measures |
| Time <br> Measurement | Before and after <br> Days of the week <br> Months of the year <br> Hours, minutes and seconds <br> Tell the time to the hour | O'Clock and half past <br> Quarter past and quarter to <br> Tell time past the hour <br> Tell time to the hour | Roman numerals to 12 <br> Tell the time to 5 minutes <br> Tell the time to the minute Read time on a digital clock | Years, months, weeks and days Hours, minutes and seconds Convert between analogue and digital times |  |  |


|  | Tell the time to the half hour | Tell the time to five minutes Minutes in an hour Hours in a day | Use a.m and p.m <br> Years, months <br> and days <br> Days and hours <br> > Hours and minutes - use <br> start and end <br> times <br> Hours and minutes - use durations <br> Minutes and seconds <br> Units of time <br> Solve problems with time | Convert to the 24 hour clock Convert from the 24 hour clock |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Money <br> Measurement | Unitising <br> Recognise coins <br> Recognise notes <br> Count in coins | Count money pence <br> Count money pounds (notes and coins) <br> > Count money pounds and pence Choose notes and coins <br> > Make the same amount <br> > Compare amounts of money <br> > Calculate with money <br> > Making a pound <br> $>$ Find change <br> $>$ Two-step problems | > Pounds and pence <br> > Convert pounds and pence <br> $>$ Add money <br> > Subtract money <br> $>$ Find change | Write money using decimals <br> Convert between <br> pounds and pence <br> Compare amounts of money <br> Estimate with money Calculate with money Solve problems with money |  |  |
| Shape <br> Geometry | Recognise and name <br> 3-D shapes <br> Sort 3-D shapes <br> Recognise and name <br> 2-D shapes <br> Sort 2-D shapes <br> Patterns with 2-D <br> and 3-D shapes | Recognise 2-D and <br> 3-D shapes <br> Count sides on 2-D <br> shapes <br> Count vertices on <br> 2-D shapes <br> Draw 2-D shapes <br> Lines of symmetry <br> on shapes <br> Use lines of <br> symmetry to <br> complete shapes <br> Sort 2-D shapes | Turns and angles <br> Right angles <br> Compare angles <br> Measure and draw accurately <br> Horizontal and vertical <br> Parallel and perpendicular <br> Recognise and describe 2-D shapes <br> Draw polygons | Understand angles as turns <br> Identify angles <br> Compare and order angles <br> Triangles <br> Quadrilaterals <br> Polygons <br> Lines of symmetry <br> Complete a symmetric figure | Understand and use degrees <br> Classify agles <br> Estimate angles <br> Measure angles up to 180 <br> Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line | Measure and classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle special cases |


|  |  | Count faces on 3-D shapes <br> > Count edges on 3- <br> D shapes <br> > Count vertices on 3-D shapes <br> > Sort 3-D shapes <br> > Make patterns with 2-D and 3-D shapes | Recognise and describe 3-D shapes <br> > Make 3-D shapes |  | > Lengths and angles in shapes <br> > Regular and irregular polygons <br> > 3-D shapes | $>$ Angles in a triangle missing angles <br> > Angles in quadrilaterals <br> > Angles in polygons <br> > Circles <br> > Draw shapes accurately <br> > Nets of 3-D shapes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Position and Direction <br> Geometry | Describe turns <br> Describe position left and right Describe position forwards and backwards <br> > Describe position above and below <br> > Ordinal numbers | Language of position <br> Describe <br> movement <br> Describe turns <br> Describe movement and turns <br> > Shape patterns with turns |  | Describe position using coordinates <br> Plot coordinates <br> > Draw 2-D shapes on a grid <br> > Translate on a grid <br> > Describe translation on a grid | Read and plot coordinates <br> > Problem solving with coordinates <br> > Translation <br> > Translation with coordinates <br> > Lines of symmetry <br> > Reflection in horizontal and vertical lines | The first quadrant <br> > Read and plot points in four quadrants <br> > Solve problems with coordinates <br> > Translations <br> > Reflections |
| Statistics |  | > Make tally charts <br> > Tables <br> > Block diagrams <br> > Draw pictograms <br> (1-1) <br> > Interpret <br> pictograms (1-1) <br> > Draw pictograms <br> (2, 5 and 10) <br> Interpret <br> pictograms (2, 5 and 10) | Interpret <br> pictograms <br> > Draw pictograms <br> > Interpret bar charts <br> > Draw bar charts <br> > Collect and represent data <br> > Two-way tables | > Interpret charts <br> > Comparison, sum and difference <br> > Interpret line graphs <br> > Draw line graphs | $>$ Draw line graphs <br> > Read and interpret <br> line graphs <br> > Read and interpret tables <br> > Two-way tables <br> > Read and interpret timetables | $>$ Line graphs <br> > Dual bar <br> charts <br> > Read and interpret pie charts <br> > Pie charts with percentages <br> > Draw pie charts <br> > The mean |

