

## Year 2 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11		
Phase 1	<b>Number and Place Value</b>		<b>Addition and Subtraction</b>			<b>Measures: Length and mass</b>		<b>Statistics</b>	<b>Multiplication and Division</b>				
Phase 2	<b>Measures: Money</b>		<b>Geometry Properties of shape</b>			<b>Fractions</b>							
Phase 3	<b>Measures: Time</b>		<b>Measures: Capacity, volume and temperature</b>		<b>Post SATs Project Work</b>								
Phase 4 (EoY)	<b>Four Operations Consolidation</b>			<b>Fractions consolidation</b>									

<b>Ongoing throughout the year:</b>	<p><b>Time</b></p> <ul style="list-style-type: none"> <li>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</li> <li>know the number of minutes in an hour and the number of hours in a day</li> <li>compare and sequence intervals of time</li> </ul> <p><b>Multiplication Facts</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> </ul> <p><b>Counting</b></p> <ul style="list-style-type: none"> <li>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward</li> </ul>
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## Year 2 Phase 2 Objectives

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
<b>Main Sessions</b>	<p><u>Measurement: Money</u> Recognise and use symbols of pounds (£) and pence (p); combine amounts to make a particular value.</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</p>		<p><u>Geometry: Properties of Shape</u> Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].</p> <p>Compare and sort common 2D and 3D shapes and everyday objects.</p> <p>Order and arrange combinations of mathematical objects in patterns and sequences.</p>			<p><u>Fractions:</u></p> <p>Recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</p> <p>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3</p> <p>Recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</p>		







	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
<b>S &amp; D Sessions</b>	<u>Number and place value</u>		<u>Addition and subtraction</u>			<u>Multiplication and division</u>		

## Year 2 MTP – Phase 2



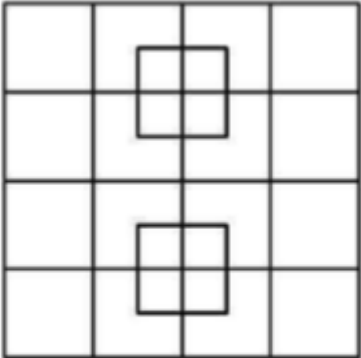
Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving																														
<b>Measures: Money</b>	Recognise and use symbols of pounds (£) and pence (p); combine amounts to make a particular value.	<ul style="list-style-type: none"> <li>Here is a table of money that three people have in pounds and pence. Can you fill in the blank boxes? <table border="1" data-bbox="600 534 974 662"> <thead> <tr> <th>Name</th> <th>£</th> <th>p</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Phil</td> <td>4</td> <td></td> <td>£4.65</td> </tr> <tr> <td>Sue</td> <td>3</td> <td>95</td> <td></td> </tr> <tr> <td>Gary</td> <td></td> <td>115</td> <td>£6.15</td> </tr> </tbody> </table> </li> <li>Jackson went to the shop to buy milk and bread. <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="text-align: center; margin-right: 10px;">  49p </div> <div style="text-align: center; margin-right: 10px;">  MILK </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="text-align: center; margin-right: 10px;">  90p </div> <div style="text-align: center; margin-right: 10px;">  </div> </div> <p>How much money does he need to pay without receiving any change?</p> </li> <li>Tara has 2 ten pence coins, a five pence coin and a fifty pence coin. How much money does she have altogether?</li> </ul>	Name	£	p	Total	Phil	4		£4.65	Sue	3	95		Gary		115	£6.15	<ul style="list-style-type: none"> <li>Anna has 3 silver coins in her hand. Larry says, "I have more than you because I have a £1 coin." Is he correct? Explain why.</li> <li>Always, sometimes, never. You can make £1 using an odd number of coins. Convince me!</li> <li>True or false  5 copper coins can be worth more than 1 silver coin.</li> </ul>	<ul style="list-style-type: none"> <li>Jamie has 5 silver coins in his hand. How many different ways can he make £1 or more?</li> <li>Patrick visits an arcade. He has £5. He wants to go on at least 4 games. <table border="1" data-bbox="1534 654 1982 877" style="margin-top: 10px;"> <thead> <tr> <th>Game</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>Whack-a-rat</td> <td>70p</td> </tr> <tr> <td>Donkey Derby</td> <td>90p</td> </tr> <tr> <td>Bingo</td> <td>£1</td> </tr> <tr> <td>Grab-a-prize</td> <td>50p</td> </tr> <tr> <td>Dance mania</td> <td>85p</td> </tr> <tr> <td>Deal or no deal</td> <td>£1.25</td> </tr> </tbody> </table> <p>Which games can he go on? Will he have any change? Can you find more than one combination of games?</p> </li> <li>How many ways can you make £1 using an unlimited amount of coins?</li> </ul>	Game	Price	Whack-a-rat	70p	Donkey Derby	90p	Bingo	£1	Grab-a-prize	50p	Dance mania	85p	Deal or no deal	£1.25
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Measures: Money	Find different combinations of coins that equal the same amounts of money.	<ul style="list-style-type: none"> <li>Make 50p three ways using the coins below. You can use the coins more than once.</li> </ul> 	<ul style="list-style-type: none"> <li>Charanjot tells her friend Sam she has only silver coins in her hand. She says she has 43p. Sam thinks that's impossible. Do you agree with Sam? Explain why.</li> <li>True or false: 4 five pence coins are worth more than 2 ten pence coins. Explain why.</li> </ul> 	<ul style="list-style-type: none"> <li>Hanna and Ste both claim to have 90p. Hanna has 3 coins and Ste has 4 coins. Are they correct? Which coins could they have?</li> <li>Emily has £3.40 and Katie has £2.20. How much does Emily need to give Katie so they have the same amount?</li> <li>Here is a price list. Jay has £2.20. What can he buy?</li> </ul> <table border="1" data-bbox="1554 708 1998 1117"> <thead> <tr> <th>Item</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>Chicken sandwich</td> <td>£1</td> </tr> <tr> <td>Ham sandwich</td> <td>£1.50</td> </tr> <tr> <td>Turkey sandwich</td> <td>£1.20</td> </tr> <tr> <td>Salad</td> <td>30p</td> </tr> <tr> <td>Jacket potato</td> <td>£1</td> </tr> <tr> <td>Panini</td> <td>£1.30</td> </tr> <tr> <td>Soup</td> <td>£1.60</td> </tr> <tr> <td>Sauce</td> <td>10p</td> </tr> <tr> <td>Can of pop</td> <td>60p</td> </tr> <tr> <td>Bun</td> <td>60p</td> </tr> <tr> <td>Chocolate bar</td> <td>50p</td> </tr> </tbody> </table>	Item	Price	Chicken sandwich	£1	Ham sandwich	£1.50	Turkey sandwich	£1.20	Salad	30p	Jacket potato	£1	Panini	£1.30	Soup	£1.60	Sauce	10p	Can of pop	60p	Bun	60p	Chocolate bar	50p
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		<ul style="list-style-type: none"> <li>I have £1.45. Can you find or draw the coins I could have to make this?</li> <li>Paul has £2 and Tony has £1.20. Which coins could Tony add to his pile to make his and Paul's amounts equal?</li> </ul>	<ul style="list-style-type: none"> <li>Emily finds a 20p coin and thinks she now has enough for a ride on the ghost train. She puts it with her other three 20p coins. The ghost train costs £1. Is she correct? Explain why.</li> </ul>	<p>Can you find a different set of items he can buy?</p>																								

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<b>Measures: Money</b>	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	<ul style="list-style-type: none"> <li>Benji spends £1.35 in the shop and pays with a £2 coin. How much change will he receive?</li> <li>Arun buys an ice lolly from the ice cream van. It costs 90p. He pays in 10 pence coins. How many 10 pence coins does he use?</li> <li>Fill in the missing box:  <math>\square + 40p = £1 - 30p</math>  <math>70p - 50p = 5p + \square</math> </li> </ul>	<ul style="list-style-type: none"> <li>True or false: you can make 51p using just 2 pence coins. Write an explanation with your answer.</li> <li>Alex has 90p. He bought a rubber for 30p and wants to buy a pencil.</li> </ul>  <p>The shopkeeper will not sell him the pencil. Can you explain why to Alex?</p> <ul style="list-style-type: none"> <li>Odd one out. Look at the coins below. Which one is the odd one out and why?</li> </ul> 	<ul style="list-style-type: none"> <li>Marie went to the shop and spent 20p. She bought at least one of each sweet. Which item did she buy two of?</li> </ul> <table border="1" data-bbox="1541 459 1982 587"> <tbody> <tr> <td>Munchy</td> <td>2p</td> </tr> <tr> <td>Sweetie</td> <td>3p</td> </tr> <tr> <td>Choccy bar</td> <td>5p</td> </tr> <tr> <td>Spotty eggs</td> <td>7p</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Frankie bought candyfloss at a fayre. She paid with 6 coins. How much could the candyfloss have been? Which answer do you think is the most reasonable?</li> <li>Colin has 5 coins in his pocket. How much money might he have?</li> </ul>	Munchy	2p	Sweetie	3p	Choccy bar	5p	Spotty eggs	7p
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		<b>Additional Guidance:</b> Concrete resources, bar model, number-lines. Place coins into the bar model, partition coins into tens and ones, place coins onto the number-line to match the jumps.										



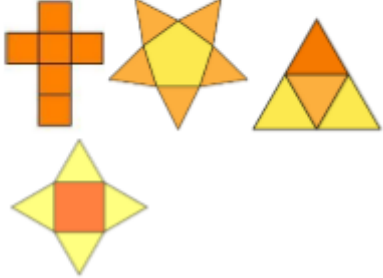
Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
<b>Geometry: Properties of Shape</b>	Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.	<ul style="list-style-type: none"> <li>How many sides does an octagon have?</li> <li>Count the sides of this shape and then name it.</li> </ul>  <ul style="list-style-type: none"> <li>How many corners does a square have?</li> </ul>	<ul style="list-style-type: none"> <li>Caroline is finding the properties of a shape. She thinks it is a square because it has four sides. Explain why she could be wrong.</li> <li>Look at the line of symmetry in the shape below. Do you agree it is a line of symmetry? Explain why.</li> </ul>  <ul style="list-style-type: none"> <li>I am thinking of a shape with more than two lines of symmetry. Prove which shape I am thinking of by using a pictorial image. Is that the only shape it could be?</li> </ul>	<ul style="list-style-type: none"> <li>How many squares can you see in this picture?</li> </ul>  <ul style="list-style-type: none"> <li>Draw a shape for a friend. How many lines of symmetry can they find? Can you now draw a shape with more lines of symmetry?</li> </ul>



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
<p><b>Geometry:</b> <b>Properties of Shape</b></p>	<p>Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</p>	<ul style="list-style-type: none"> <li>• How many faces does a cube have?</li> <li>• What is my shape? I have 5 faces, 8 edges and 5 vertices.</li> <li>• What is the name given to 2 faces that meet?</li> </ul>	<ul style="list-style-type: none"> <li>• Katie is trying to build a tower with 3D shapes. When she uses one shape they keep rolling off each other. What shape do you think she is using and why?</li> <li>• Class 2 are using straws to make 3D shapes. Each child is given 12 straws to make a cuboid. Is this the right amount? Explain how you know. (Give children straws to use).</li> <li>• Jack says, "All 3D shapes have at least 1 vertex." Do you agree? Convince me.</li> </ul>	<ul style="list-style-type: none"> <li>• Look at the shapes on your table. Can you create a table/diagram to organise these shapes? How many different ways could they be sorted?</li> <li>• Put different shapes into a bag. In pairs, take turns to feel a shape, without looking, and describe it to your partner. Can they guess it? Record the clues you gave.</li> <li>• Three children have a 3D shape each. They are all different. They each give a fact about their shape. Aidan says, "My shape has 1 vertex." Anthony says, "My shape has less than 9 faces." Bevan says, "My shape has a triangle on one of their faces." List all the shapes they could each possibly have.</li> </ul>



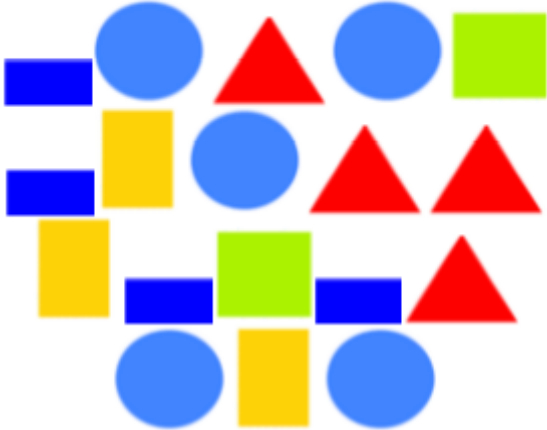

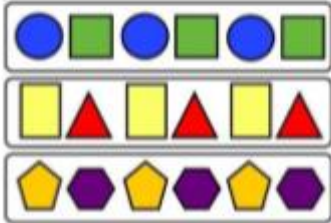

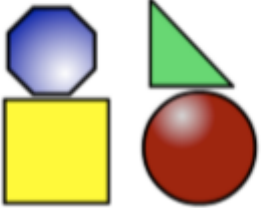


Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
<p><b>Geometry: Properties of Shape</b></p>	<p>Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].</p>	<ul style="list-style-type: none"> <li>Which 2D shape makes 2 of the faces on a cylinder?</li> <li>Fill in the missing number: A square based pyramid has <span style="background-color: #4682B4; color: white; padding: 2px 5px;"> </span> faces made from triangles.</li> <li>Name a 3D shape that has a rectangle as one of their faces?</li> </ul>	<ul style="list-style-type: none"> <li>I am thinking of a 3D shape. The faces are made up of triangles. What shape am I thinking of?</li> <li>Saira is drawing all the 2D shapes she finds on 3D shapes. She draws 8 squares for a cube. Is she right? Prove it!</li> </ul>	<ul style="list-style-type: none"> <li>Use the straws provided to create 3D shapes using the correct properties. What shapes do you notice on the faces?</li> <li>Abigail is folding paper to make a 3D shape. Work out the shapes she has made by looking at her folded papers.</li> </ul> <div style="text-align: center;">  </div>

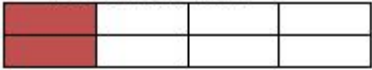

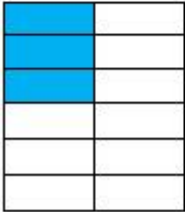
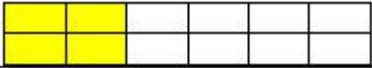






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<b>Geometry: Properties of Shape</b>	Compare and sort common 2D and 3D shapes and everyday objects.	<ul style="list-style-type: none"> <li>Find 3 different 3D shapes in the classroom.</li> <li>Sort the shapes on your tables into 2D and 3D.</li> <li>What is my shape? It is used in a game with two teams. It has only 1 face.</li> </ul>	<ul style="list-style-type: none"> <li>What's the same about a cube and cuboid? What's different?</li> <li>Using the shapes on your table, sort them into different groups. Explain why you have organised them this way.</li> <li>Find a 2D shape and a 3D shape in the classroom – could these objects have been designed better using a different shape e.g. would a clock look better as a square?</li> </ul>	<ul style="list-style-type: none"> <li>Shape hunt! Look around the school and playground. What shapes can you find?</li> <li>Look at the diagram below.</li> </ul> <table border="1" data-bbox="1442 475 1912 911"> <thead> <tr> <th></th> <th>3D</th> <th>Not 3D</th> </tr> </thead> <tbody> <tr> <td>Has 1 or more curved sides/ faces</td> <td></td> <td></td> </tr> <tr> <td>No curved sides/ faces</td> <td></td> <td></td> </tr> </tbody> </table> <p>Sort the shapes on your table into this diagram.</p>		3D	Not 3D	Has 1 or more curved sides/ faces			No curved sides/ faces		
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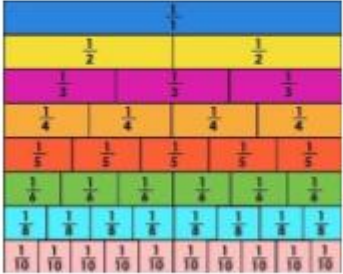
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<p><b>Geometry: Properties of Shape</b></p>	<p>Order and arrange combinations of mathematical objects in patterns and sequences</p>	<ul style="list-style-type: none"> <li>Draw a pattern to show the following: red triangle, yellow square, blue circle.</li> <li>Use the cubes to make a sequence. Can your partner continue it?</li> <li>Create a pattern using only these shapes.</li> </ul> 	<ul style="list-style-type: none"> <li>Jessie is making a pattern. It goes like this: red square, blue circle, green triangle. She thinks the 12<sup>th</sup> term will be a red square. Is she right? How do you know?</li> <li>Spot and correct the mistake.</li> </ul>  <ul style="list-style-type: none"> <li>What's the same and what's different about these patterns?</li> </ul> 	<ul style="list-style-type: none"> <li>How many patterns can you see on this picture?</li> </ul>  <ul style="list-style-type: none"> <li>How many different sequences can you make from the shapes below?</li> </ul>  <ul style="list-style-type: none"> <li>Can you create a sequence for a partner?</li> </ul>



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
<b>Fractions</b>	<p>Number: Fractions Recognise, find, name and write fractions</p> <p><math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math></p> <p>and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</p>	<ul style="list-style-type: none"> <li>What fraction of the shape below is shaded? </li> <li>Pat is organising her teddy bears. She donates <math>\frac{1}{4}</math> of them to charity. How many bears did she have left? </li> <li>Circle the shape showing <math>\frac{1}{4}</math>  </li> </ul>	<ul style="list-style-type: none"> <li>Circle the odd one out. Explain why you have chosen this fraction. <math>\frac{1}{4}</math> <math>\frac{1}{3}</math> <math>\frac{2}{4}</math> <math>\frac{1}{2}</math></li> <li>Four children want an equal share of this paper signed by a famous singer.  Explain how they can do it.</li> <li>Amy is picturing two fractions. She says, "I think <math>\frac{1}{4}</math> will be bigger than <math>\frac{1}{2}</math> because 4 is bigger than 2." Draw these fractions to prove her wrong.</li> </ul>	<ul style="list-style-type: none"> <li>Find fractions all around you. Write and illustrate them in your journal e.g.  The food filled <math>\frac{1}{2}</math> of the plate.</li> <li>Look at 20 toy cars. Is it possible to find <math>\frac{1}{2}</math> <math>\frac{1}{3}</math> <math>\frac{1}{4}</math> of them without breaking any of them?</li> <li>Use 3 circles, colour them in so they show <math>\frac{1}{4}</math> <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math>. Write a sentence to explain what you notice. Now colour 3 circles and colour them in so they show <math>\frac{1}{2}</math> <math>\frac{1}{3}</math> and <math>\frac{1}{4}</math>. Write a sentence to explain what you notice. What is the difference between the first set of circles and the second set of circles?</li> </ul>

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<b>Fractions</b>	Write simple fractions for example, $\frac{1}{2}$ of 6 = 3	<ul style="list-style-type: none"> <li>Find <math>\frac{1}{3}</math> of 30.</li> <li>Fill in the boxes:                <math>\frac{1}{2}</math> of 6 = <input type="text"/>  <math>\frac{1}{3}</math> of 12 = 3                <math>\frac{2}{4}</math> of <input type="text"/> = 4             </li> <li>Write a simple fraction sentence for the space shaded below.               <table border="1" style="margin-top: 10px;"> <tr><td style="background-color: #00aaff; width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> <tr><td style="background-color: #00aaff; width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> <tr><td style="background-color: #00aaff; width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> </table> </li> </ul>							<ul style="list-style-type: none"> <li>Here is what is left of a pizza that Byron ate.                  If he had another equal piece to this left, he would have <math>\frac{1}{2}</math> of the original pizza. How much did he eat? Explain how you know.             </li> <li>Bill is asked to shade a half of his shape. This is what he shades.                <table border="1" style="margin-top: 10px;"> <tr><td style="background-color: #a52a2a; width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> <tr><td style="width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> <tr><td style="width: 50px; height: 15px;"></td><td style="width: 50px; height: 15px;"></td></tr> </table>  Is he correct? Explain why.             </li> <li>Jessie is writing simple fraction sentences. She says, "I know <math>\frac{1}{2}</math> of 8 is 4 so <math>\frac{1}{4}</math> of 8 is 8." Explain the mistake Jessie has made.</li> </ul>							<ul style="list-style-type: none"> <li>Look at the toy cars. Write as many different fraction sentences as you can e.g. <math>\frac{1}{2}</math> of 20 = 10.</li> <li>Look at the picture below. How many fraction sentences can you write?                e.g. <math>\frac{1}{3}</math> of the stars are blue.                 </li> </ul>



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving
<b>Fractions</b>	<p>Recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</p>	<ul style="list-style-type: none"> <li><math>\frac{2}{4}</math> of this tower is blue. How else can we describe this? </li> <li>What fraction of these shapes are shaded orange? </li> <li>What is <math>\frac{2}{4}</math> equivalent to?</li> </ul>	<ul style="list-style-type: none"> <li>Mihal receives <math>\frac{1}{2}</math> of £10. Violet gets <math>\frac{2}{4}</math> of it. How much money is left? Explain why.</li> <li>Tick the shapes that are showing <math>\frac{1}{2}</math> or <math>\frac{2}{4}</math> are shaded. Explain how you know. </li> <li>Gareth and Stacey both have the same sized chocolate bar. Gareth eats 1 piece of his. Stacey eats 2 equal pieces of hers. They eat the same amount of chocolate. Can you explain how you know this is true?</li> </ul>	<ul style="list-style-type: none"> <li>Take different shaped paper e.g. </li> <li>Ask the children to fold them and colour them in different colours to show <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math></li> <li>Look at the fraction wall. </li> <li>How many times can you find <math>\frac{1}{2}</math> or <math>\frac{2}{4}</math>?</li> </ul>