

S2 Learning Conversation 2 *(based on CQ results)*

You have identified where you should improve your knowledge and skills. Well Done!
This is the first step to being a Mathematician.













Watch each video, complete the practice and get your Parent/ Carer to sign/date each 'block' you complete.

Your Teacher will check this on a weekly basis so plan and pace your learning.


























Wednesday and Thursday lunchtime is the S1-S3 Maths Homework Clinic if you need more practice or some advice.



















Multiples, Factors and Primes

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can identify multiples of whole numbers.</p> <div style="text-align: center;">   </div>	<p>I can identify common multiples, including the lowest common multiple.</p> <div style="text-align: center;">   </div>	
<p>I can identify factors of whole numbers.</p> <div style="text-align: center;">   </div>	<p>I can identify common factors, including the highest common factor.</p> <div style="text-align: center;">   </div>	
	<p>I can identify prime numbers up to 100 and can explain method used.</p> <div style="text-align: center;">   </div>	
	<p>I can write a given numbers as a product of its prime factors.</p> <div style="text-align: center;">   </div>	































Measurement

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can calculate the perimeter of simple straight-sided 2D shapes.</p>  		
<p>I can calculate the area of squares and rectangles.</p>  	<p>I can calculate the area of a 2D shape where the units are inconsistent.</p>	
<p>I can calculate the area of triangles.</p>  	<p>I can calculate the area of compound 2D shapes constructed from squares, rectangles and triangles.</p>  	<p>I can calculate the area of kites, parallelograms and <u>trapeziums</u>.</p>    
		<p>I can use formulae and calculate the surface area of cuboids, triangular prisms and cylinders.</p>     
<p>I can calculate the volume of cubes and cuboids.</p>  	<p>I can calculate the volume of compound 3D objects constructed from cubes and cuboids.</p>  	<p>I can calculate the volume of triangular prisms and cylinders using formulae.</p>   
<p>I can convert between common units e.g. cm ↔ m and g ↔ kg</p>    		























Angles, Symmetry and Transformation

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can describe a range of angles e.g. acute, obtuse, straight and reflex.</p>  	<p>I can name angles e.g. \widehat{BAC}.</p>	
<p>I can measure angles to within $\pm 2^\circ$.</p>  		
<p>I can draw angles to within $\pm 2^\circ$.</p>  		
<p>I know that complementary angles add up to 90° and can use this knowledge to calculate missing angles.</p>  	<p>I can identify corresponding/ alternate angles and use this knowledge to calculate missing angles.</p>  	<p>I can apply my knowledge of the relationship between the tangent and radius to calculate sizes of missing angles.</p>
<p>I know that supplementary angles add up to 180° and can use this knowledge to calculate missing angles.</p>  	<p>I can identify vertically opposite angles and use this knowledge to calculate missing angles.</p>  	
	<p>I can use angle properties of triangles to find missing angles.</p>  	<p>I can apply my knowledge of triangles, angles and circles, including semi-circles, to solve problems.</p>





































Number and Number Processes

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can use multiplication and division facts up to 10 x 10.</p>  	<p>I can recall multiplication and division facts up to 10 x 10 and use facts up to 12 x 12.</p> <p><i>See Level 2.</i></p>	
<p>I can multiply and divide whole/decimal numbers by multiples of 10, 100 and 1000.</p>    		
<p>I can multiply whole numbers by two digit numbers.</p>    		
<p>I can multiply decimal numbers to two decimal places by a single digit.</p>  		
<p>I can divide whole numbers and decimal numbers to two decimal places, by a single digit.</p>    	<p>I can multiply and divide by a decimal number.</p>    	<p>I can solve multi-step problems using the four operations.</p> <p><i>See below.</i></p>
<p>I can apply the correct order of operations when solving multi-step problems.</p> <p><i>See Level 4, Q1.</i></p>		 
<p>I can order numbers less than zero and locate them on a number line.</p>  	<p>I can solve addition and subtraction problems working with integers.</p>  	
	<p>I can solve multiplication and division problems working with integers.</p>    	

Expressions and Equations

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can solve 'one step' equations e.g. $a - 30$ and $4b = 20$</p>  	<p>I can solve 'two step' equations e.g. $2x - 3 = 9$.</p>  	<p>I can solve an extended range of linear equations.</p>    
		<p>I can solve linear inequalities, including on simple closed intervals.</p>  
	<p>I can create a simple linear formula representing information contained in a problem.</p>  	<p>I can solve problems by expressing the given information appropriately as an equation, inequality or formula.</p>  
	<p>I can collect like terms, including squared terms, to simplify an algebraic expression.</p>  	<p>I can expand brackets using the distributive law and simplify.</p>  
	<p>I can evaluate expressions involving two variables using positive numbers.</p> <p><i>See Level 4.</i></p>	
	<p>I can evaluate expressions involving two variables using positive and negative numbers.</p> <p><i>See Level 4.</i></p>	<p>I can evaluate algebraic expressions involving a bracket.</p>  
	<p>I can evaluate a simple formula e.g. $c = 0.05m + 75$.</p> <p><i>See Level 4.</i></p>	
		<p>I can factorise expressions with a numeric common factor.</p>  

Fractions, Decimals and Percentages (INC. Ratio & Proportion)

On Track for CfE Level 2	On Track for CfE Level 3	On Track for CfE Level 4
<p>I can solve problems involving common equivalent forms e.g. $\frac{3}{4} = 0.75 = 75\%$.</p>  	<p>I can convert fractions, decimals and percentages.</p>  	
<p>I can calculate a percentage of a quantity and use my answer e.g. to calculate the sale price.</p>  	<p>I can carry out calculations with and without a calculator.</p>    	<p>I can calculate the percentage increase or decrease of a value.</p>  
<p>I can calculate fractions of a quantity.</p>  		
<p>I can put a set of most commonly used fractions in order.</p>  		
<p>I can simplify fractions.</p>  		
<p>I can create equivalent fractions.</p>  	<p>I can add and subtract fractions, including changing a denominator.</p>    	
	<p>I can convert between whole or mixed numbers and improper fractions.</p>    	<p>I can add, subtract and multiply fractions and mixed numbers.</p>     <p><i>See Level 3 for add and subtract.</i></p>
	<p>I can solve problems in which related quantities are increased or decreased proportionally.</p>  	<p>I can use my knowledge of proportion to solve problems in real-life.</p>  
	<p>I can express quantities as a ratio in its simplest form.</p> 