

Year 3 Spring 2: Week 4 Maths Planning

Date	Learning Objective	Starter Activity	Main Teaching	Plenary Activity
	<p>✓ Describe 2-D shapes using accurate language, including lengths of lines and angles greater or less than a right angle (+)</p>	<p>http://www.math-play.com/2D-Shapes-Concentration/2D-Shapes-Concentration.html</p> <p>Play the game above. You have to match the shape with the correct name.</p> <p>There is a square, triangle, hexagon, pentagon, trapezoid and octagon.</p>	<p>Whole Class:</p> <p>Go into mymaths -> Geometry -> Properties of shapes -> 2D and 3D shapes -> Lesson</p> <p>Focus on the first 3 slides for today.</p> <p>Introduce the word 'Polygon'. Explain that it is a shape with at least three straight sides and angles. Explain that you can get regular (all sides and angles are the same length) and irregular polygons (sides and angles are not the same length).</p> <p>https://www.mathsisfun.com/definitions/irregular-polygon.html</p> <p>The website above is brilliant for visually demonstrating regular/irregular polygons. You can alter the number of sides and then drag the corners to change it from regular to irregular.</p> <p>Individually:</p> <p>Pupils are going to aim to sort regular and irregular polygons.</p> <p>LA - Should be given the '2D shape sheet'. They should name the shapes and then colour the regular ones in one colour and the irregular ones in another.</p>	<p>http://www.shodor.org/interactivate/activities/ShapeSorter/</p> <p>Using the website above you can sort shapes into a venn diagram.</p> <p>Can pupils come up with different ways to sort them?</p>

			<p>MA/HA - Should be given the 'regular and irregular shapes' sheet. They should name the shapes in the boxes. They should then colour the regular ones in one colour and the irregular ones in another.</p> <p>Ext - Pupils can draw a regular / irregular polygon in their book and add an explanation as to why it is regular / irregular. You could give them certain guidelines (Can you draw a four sided shape with one length of 7cm and the other three different will this be regular or irregular?)</p>	
	<p>✓ Describe 2-D shapes using accurate language, including lengths of lines and angles greater or less than a right angle (+)</p>	<p>Hand out the 'Right angle finders'. Pupils can use these throughout the week.</p> <p>Go into mymaths -> library -> geometry -> shape -> angles 1 -> lesson</p> <p>This is excellent for demonstrating right angles and it also covers acute/obtuse.</p> <p>I would recommend going through this until slide 7.</p>	<p>Whole Class:</p> <p>https://mathsframe.co.uk/en/resources/resource/75/shapes-sort-carroll</p> <p>Play the game above. Hopefully after the starter pupils should be able to identify whether the shapes have right angles or not and sort them. You could extend the HA by also asking them if the shape is a regular/irregular polygon.</p> <p>LA - Open 'Venn LA flipchart' using the insert shapes tool explain and demonstrate how a Venn diagram is used.</p> <p>MA - Open 'Venn MA flipchart' using the insert shapes tool explain and demonstrate how a Venn diagram is used.</p>	<p>http://mathsframe.co.uk/en/resources/resource/75/shapes_sort_carroll</p> <p>Use the activity above to consolidate.</p> <p>Click Full Screen. I would also suggest sticking to just 'Is it a quadrilateral' and 'Does it have one or more right angles?'</p>

			<p>HA - Open 'Carroll HA flipchart' using the insert shapes tool explain and demonstrate how a Carroll diagram is used.</p> <p>Individually: Three sheets of shapes available, choose one appropriate to your set.</p> <p>LA - Hand out the LA Venn diagram. Pupils should cut and stick shapes into the correct sections.</p> <p>MA - Hand out the MA Venn diagram. Pupils should cut and stick shapes into the correct sections.</p> <p>HA - Hand out the HA Carroll diagram. Pupils should cut and stick shapes into the correct sections. Can use Venn diagram if you wish and move on to Carroll as a plenary.</p>	
✓		<p>http://www.mathsisfun.com/rightangle.html</p> <p>Go through the website above. To reinforce the work done on angles yesterday.</p> <p>Go further down and look at the 'Types of Angles'. Focus on acute/obtuse – what do they remember about these?</p> <p>Below there is a 'Try It Yourself' section that is good for demonstrating acute/right/obtuse angles.</p>	<p>Whole Class:</p> <p>Go into mymaths -> library -> shape -> 2D and 3D shapes -> 2D and 3D shapes -> lesson</p> <p>Start on slide 4. This is fantastic for introducing 3D shapes, naming them and looking at some basic properties. I would recommend going down to slide 7.</p> <p>Explain that today pupils are going to be using nets to create their own 3D shapes for use in tomorrow's lesson.</p>	

			<p>We have the 3D shapes from the maths cupboard to pass around so we can see how the nets fit together to make the shape. Please ensure these are looked after.</p> <p><u>Individually/Paired:</u></p> <p>LA/MA/HA – There are six different nets to choose from. Cone, cube, cuboid, cylinder, square based pyramid and triangular prism.</p> <p>They will need these for tomorrow so LA could pair up and do 3 nets each rather than 6.</p>	
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