


Subject	Year	Month	
Mathematics	10	November	
<b>Topic:</b>			
<b>Charts and graphs</b>			4 lessons
Content (Intent)			
<b>Prior Learning</b> Year 9 Frequency polygons and types of bar chart December		<b>Future Learning</b> Year 10 Pie charts December Year 10 Scatter graphs January	
<b>Objectives</b> <ul style="list-style-type: none"> <li>• Plotting coordinates in first quadrant and read graph scales in multiples;</li> <li>• Produce and interpret data shown in : <ul style="list-style-type: none"> <li>○ pictograms;</li> <li>○ composite bar charts;</li> <li>○ dual/comparative bar charts for categorical and ungrouped discrete data;</li> <li>○ bar-line charts;</li> <li>○ vertical line charts;</li> <li>○ line graphs, including those for time-series data;</li> <li>○ histograms with equal class intervals;</li> <li>○ stem and leaf (including back-to-back);</li> <li>○ Frequency Polygons; (drawing only)</li> </ul> </li> <li>• From a bar chart or table: calculate total population, find greatest and least values and identify the mode</li> <li>• Find the mode from a stem and leaf diagram;</li> <li>• Recognise simple patterns, characteristics, relationships in bar charts and line graphs.</li> </ul>			
<b>Pedagogical notes (implementation)</b>		<b>How will understanding be assessed &amp; recorded (Impact)</b>	
Ensure that you include a variety of scales, including decimal numbers of millions and thousands, time scales in hours, minutes, seconds. Misleading graphs are a useful life skill.		<b>End of half term</b> Dec <b>End of Year</b> Year 10 exams in April	
		<b>How can parents help at home?</b>	
		<b>MathsWatch clips</b>  Qualification KS3: S1ab, S2ab, S5  Qualification KS4: 15, 16, 64, 65a, 128b, 153	
<b>Further reading/discussion</b>			
<b>Reading / Enrichment</b> <a href="http://passyworldofmathematics.com/real-world-charts-and-graphs/">http://passyworldofmathematics.com/real-world-charts-and-graphs/</a>	<b>Literacy</b>	<b>Numeracy Links</b>	<b>Careers Links</b> Research analyst (medical, educational, market, management, etc. ) Economist Geotechnology