
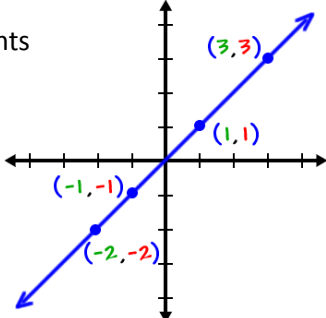




# Maths Masterclasses @ Leventhorpe

NUMBER	ALGEBRA
<ul style="list-style-type: none"> <li>▪ Converting between fractions, decimals and percentages</li> <li>▪ Finding percentages of quantities</li> <li>▪ Increasing/decreasing a quantity by a percentage</li> <li>▪ Ratio and proportion</li> <li>▪ Reverse percentages</li> <li>▪ Arithmetic of fractions (all four operations)</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div>	<ul style="list-style-type: none"> <li>▪ Trial and improvement for algebraic problems</li> <li>▪ Solve linear equations with integer coefficients</li> <li>▪ Finding and using the nth term rule</li> <li>▪ Plotting simple linear functions</li> <li>▪ Gradient and intercept of <math>y = mx + c</math></li> <li>▪ Distance-time graphs</li> </ul> <div style="text-align: right; margin-top: 20px;">  </div>
GEOMETRY AND MEASURE	STATISTICS AND PROBABILITY
<ul style="list-style-type: none"> <li>▪ Classify quadrilaterals by their geometric properties</li> <li>▪ Angles on parallel lines, intersecting lines, triangles and quadrilaterals</li> <li>▪ Proof of angle sum of a triangle and quadrilateral</li> <li>▪ 2D representations of 3D solids</li> <li>▪ Enlargement</li> <li>▪ Construct perpendicular bisector of a line &amp; bisector of an angle</li> <li>▪ Area of triangle and parallelogram</li> <li>▪ Volume and surface area of a cuboid</li> <li>▪ Area and circumference of a circle</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div>	<ul style="list-style-type: none"> <li>▪ Construct tables for large discrete and continuous sets of raw data, choosing suitable class intervals</li> <li>▪ Constructing and interpreting pie charts</li> <li>▪ Constructing and interpreting bar charts, including dual and composite bar charts</li> <li>▪ Plotting scatter graphs and analysing correlation</li> <li>▪ Understanding the sum of probabilities of mutually exclusive outcomes is 1</li> <li>▪ Use sample space diagrams to show all outcomes</li> </ul> <div style="text-align: right; margin-top: 20px;">  </div>