Curriculum Map	Subject: Mathematics		
Theme / Area Covered	Unit 14 Mathematical Movement		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway **Emerging**	Use coordinates to describe the position of a point in all four quadrants	Use coordinates to plot the position of a point in any of the four quadrants Draw and translate simple shapes Carry out a reflection using one of the axes as a mirror line	Solve geometrical problems on coordinate axes Construct and describe reflections in horizontal and vertical lines Describe a translation as a 2D vector Construct rotations using a given angle, direction and centre of rotation Solve problems involving rotations, reflections and translations
Key Objectives / Learning Pathway **Developing**	Use coordinates to plot the position of a point in any of the four quadrants Draw and translate simple shapes Carry out a reflection using one of the axes as a mirror line	Solve geometrical problems on coordinate axes Construct and describe reflections in horizontal and vertical lines Describe a translation as a 2D vector Construct rotations using a given angle, direction and centre of rotation Solve problems involving rotations, reflections and translations	Construct and describe reflections in diagonal mirror lines (45° from horizontal) Write the equation of a line parallel to the x-axis or the y-axis Identify and draw the lines $y = x$ and $y = -x$ Describe rotations giving the angle, direction and centre of rotation
Key Objectives / Learning Pathway **Securing**	Solve geometrical problems on coordinate axes Construct and describe reflections in horizontal and vertical lines Describe a translation as a 2D vector Construct rotations using a given angle, direction and centre of rotation Solve problems involving rotations, reflections and translations	Construct and describe reflections in diagonal mirror lines (45° from horizontal) Write the equation of a line parallel to the x-axis or the y-axis Identify and draw the lines $y = x$ and $y = -x$ Describe rotations giving the angle, direction and centre of rotation	Know that graphs of functions of the form $y = mx + c$, $x \pm y = c$ and $ax \pm by = c$ are linear Plot graphs of functions of the form $y = mx \pm c$ Plot graphs of functions of the form $ax \pm by = c$ Find the gradient of a straight line on a unit grid Find the y-intercept of a straight line Sketch linear graphs
Key Objectives / Learning Pathway **Excelling**	Construct and describe reflections in diagonal mirror lines (45° from horizontal) Write the equation of a line parallel to the x-axis or the y-axis Identify and draw the lines $y = x$ and $y = -x$ Describe rotations giving the angle, direction and centre of rotation	Know that graphs of functions of the form $y = mx + c$, $x \pm y = c$ and $ax \pm by = c$ are linear Plot graphs of functions of the form $y = mx \pm c$ Plot graphs of functions of the form $ax \pm by = c$ Find the gradient of a straight line on a unit grid Find the y-intercept of a straight line Sketch linear graphs	Plot and interpret graphs of piece-wise linear functions in real contexts Plot and interpret distance-time graphs (speed-time graphs) including approximate solutions to kinematic problems Distinguish between a linear and quadratic graph Plot graphs of quadratic functions of the form $y = x^2 \pm c$ Sketch a simple quadratic graph