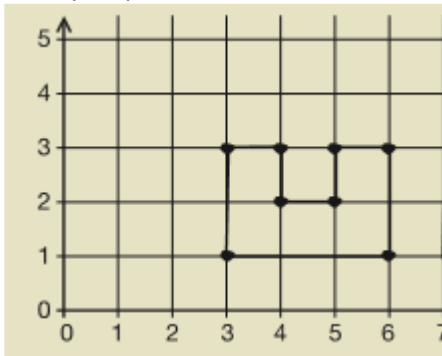
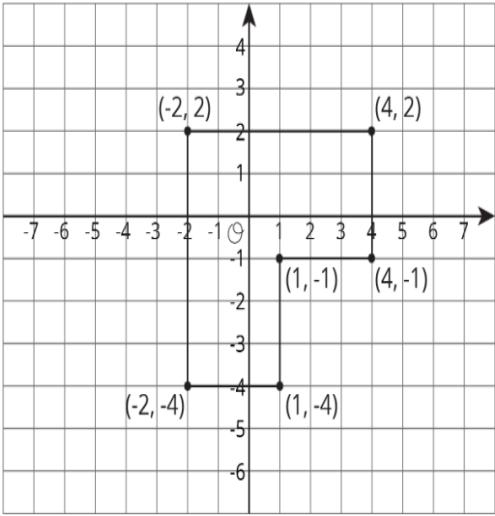
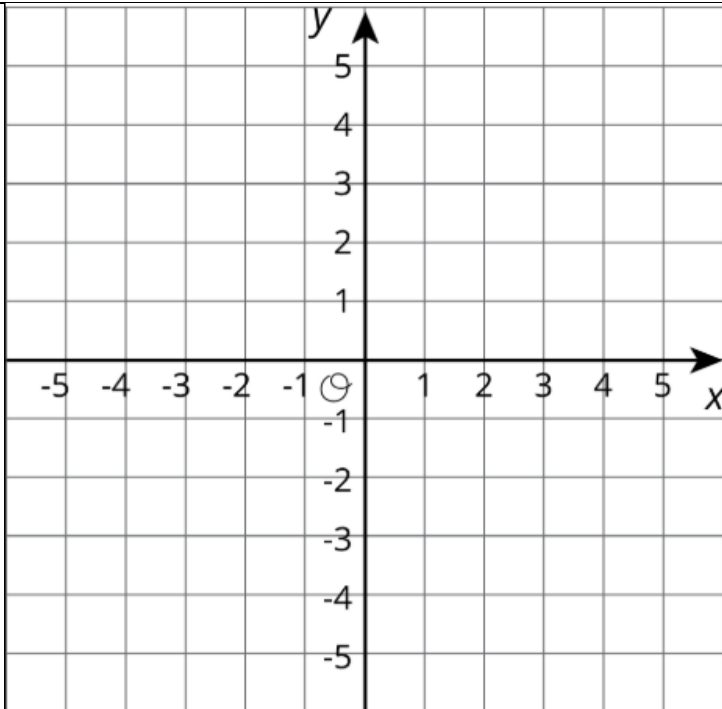
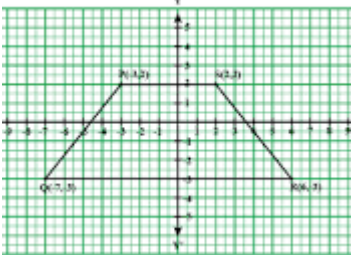



# BASIC 7

## WEEKLY LESSON PLAN – WEEK 9

<b>Learning Indicator(s)</b>	B7.3.3.3		
<b>Performance Indicator</b>	<p>B7.3.3.3.2 Plot points and shapes (i.e. plane figures) on a coordinate plane and draw their images under reflection in given lines .</p> <p>B7.3.3.3.4 Verify the concept of congruent and similar shapes in coordinate plane using properties of both the object(s) and image(s); and in real life situations (carpet designs, fabric pattern)</p>		
<b>Week Ending</b>	11-11-2022		
<b>FORM</b>	B.S.7		
<b>Subject</b>	Mathematics		
<b>Reference</b>	Teachers Resource Pack, Learners Resource Pack, Textbook.		
<b>Teaching / Learning Resources</b>	Fabric, Paper, Scissors, Shapes.		
<b>DAYS</b>	<b>PHASE 1 : STARTER</b>	<b>PHASE 2: MAIN</b>	<b>PHASE 3: REFLECTION</b>
<b>MONDAY 07-11-2022</b>	Review Learners on the knowledge on the previous lesson.	<ol style="list-style-type: none"> <li>1. Demonstrate Plotting points and plane figure shapes with given coordinates in the number plane.</li> <li>2. Assist Learners to plot the points A (3, 1), B (3, 3), C (4, 3), D (4, 2), E (5, 2), F (5, 3), H (6, 3), and I (6, 1).</li> </ol> 	<b>Exercise;</b> <ol style="list-style-type: none"> <li>1. Draw a figure in the coordinate plane with at least three of following properties: <ul style="list-style-type: none"> <li>○ 6 vertices</li> <li>○ 1 pair of parallel sides</li> <li>○ At least 1 right angle</li> </ul> </li> </ol>

			<ul style="list-style-type: none"> <li>○ 2 sides the same length</li> </ul> <p><b>Core Competencies;</b></p> <ol style="list-style-type: none"> <li>1. Reflect on work and explore thinking behind thoughts and processes</li> <li>2. Ability to ascertain when information is needed and be able to identify, locate, evaluate and effectively use them to solve a problem</li> </ol>
<p><b>TUESDAY</b> <b>08-11-2022</b></p>	<p>Discuss the meaning of quadrant with the Learners.</p>	<ol style="list-style-type: none"> <li>1. Identify points with given coordinates and lines (i.e. constant lines parallel to the x-axis or y-axis) in the number plane.</li> <li>2. Assist Learners to draw a square with one vertex on the point <math>((-3,5))</math> and a perimeter of 20 units.</li> <li>3. Learners brainstorm to write the coordinates of each other vertex</li> </ol>	<p><b>Exercise;</b></p> <p>The coordinates of a rectangle are <math>((3,0), (3,-5), (-4,0))</math> and <math>((-4,-5))</math></p> <ol style="list-style-type: none"> <li>1. What is the length and width of this rectangle?</li> <li>2. What is the perimeter of the rectangle?</li> <li>3. What is the area of the rectangle?</li> </ol>

			
<b>THURSDAY</b> <b>10-11-2022</b>	<b>Learner</b> <b>brainstorm</b> <b>to explain</b> <b>the</b> <b>meaning</b> <b>of</b> <b>Polygons</b>	<ol style="list-style-type: none"> <li><b>Assist Learners to plot and connect the following points to form a polygon ((-3,2), (2,2), (2,-4), (-1,-4), (-1,-2), (-3,-2), (-3,2))\)</b></li> <li>Learners in small groups plot given points (or shape) the number plane and draw its images under reflection in (i) the x-axis, (ii) y-axis and (iii) <math>y=x</math></li> <li>Individual Learners to draw triangle A'B'C' as the image of triangle ABC under the reflection <math>x=0</math>, <math>y=0</math>, <math>y=x</math> and any other line.</li> </ol> <div style="display: flex; justify-content: space-around;">   </div>	<b>Exercise;</b> Derive the coordinate rules <ol style="list-style-type: none"> <li>If <math>(a, b)</math> is reflected on the x-axis, its image is the point <math>(a, -b)</math></li> <li>If <math>(a, b)</math> is reflected on the y-axis, its image is the point <math>(-a, b)</math></li> <li>If <math>(a, b)</math> is reflected on the line <math>y = x</math>, its image is the point <math>(b, a)</math></li> <li>If <math>(a, b)</math> is reflected on the line <math>y = -x</math>, its image is the point <math>(-b, -a)</math></li> </ol>

