

EaD Comprehensive Lesson Plans



or



0248043888

NAME OF TEACHER:

WEEK ENDING.....24-02-2023.....

NUMBER ON ROLL:

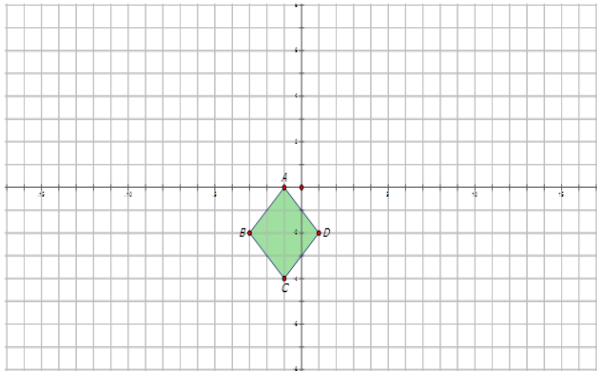
SUBJECT... MATHEMATICS

DURATION:

REFERENCE...MATHS SYLLABUS(CRDD,2007), MATHS FOR JHS

FORM.....BASIC 9.....

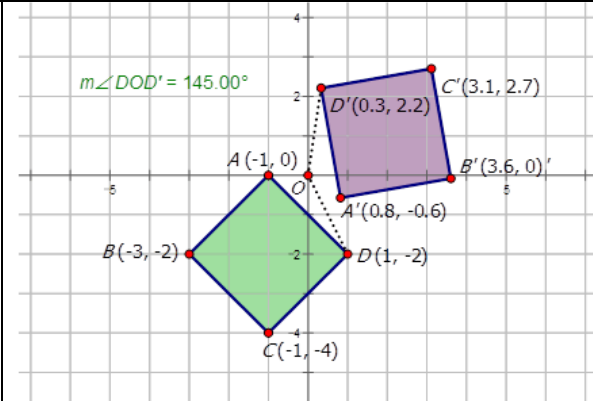
WEEK.....7.....

<u>DAY/DATE</u>	<u>TOPIC/SUB-TOPIC/ASPECT</u>	<u>OBJECTIVES/R.P. K</u>	<u>TEACHER-LEARNER ACTIVITIES</u>	<u>T/L MATERIALS</u>	<u>CORE POINTS</u>	<u>EVALUATION AND REMARKS</u>
MONDAY 9:15AM - 10:25AM 70min	Topic; Rigid Motion Sub-Topic; Rotation	By the end of the lesson the Pupil will be able to; identify a rotation of an object (shape) about a centre and through a given angle of rotation RPK Pupils were taught lessons on Rigid Motion in basic 7.	Introduction Review Pupils knowledge on the previous lesson. Activities <ol style="list-style-type: none"> Assist pupils to rotate a shape (object) through a given centre and angle of rotation using graph sheets or square paper 	Wordchart, Power Point Presentation , Pictures	<ol style="list-style-type: none"> The diamond ABCD is rotated 145° CCW about the origin to form the image A'B'C'D'. 	Exercise; state the object points/ coordinates and its corresponding image points/coordinates in the following rotation; <ol style="list-style-type: none"> 90° 180° 270° 360°

- Pupils brainstorm to state the object points and its corresponding image points under a given rotation.

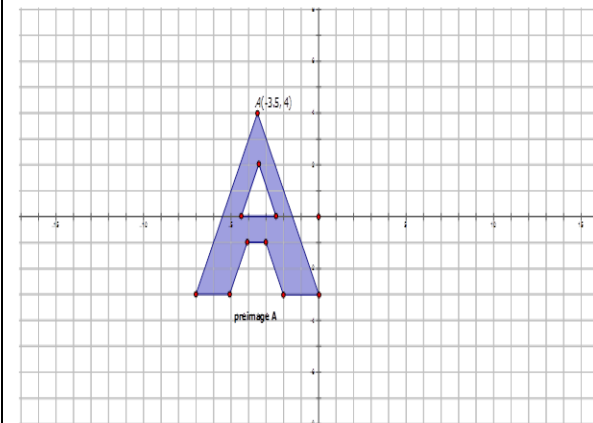
Closure

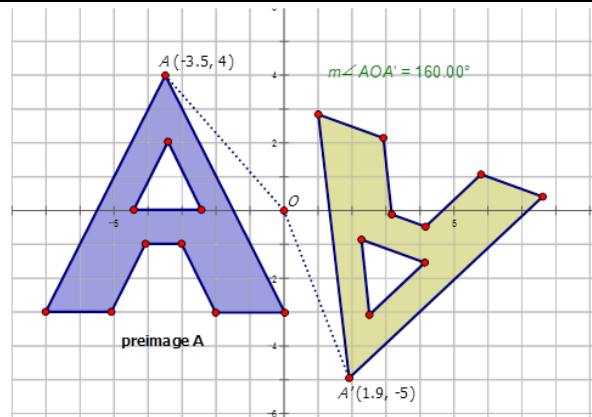
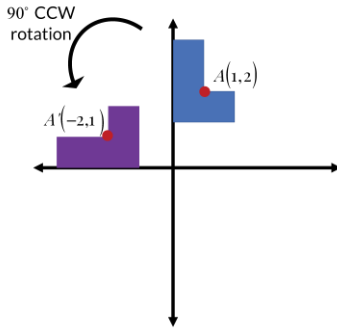
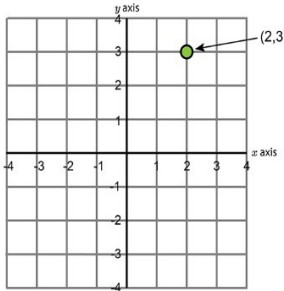
Individual Pupils practice rotating shapes through a given centre and angle of rotation using graph sheets.



Notice the direction is counter-clockwise.

- The following figure is rotated about the origin 200° CW to make a rotated image.



				 <p>Notice the direction of the rotation is counter-clockwise, therefore the angle of rotation is 160°.</p>	
TUESDAY 10:50AM – 12:00PM 70min	Topic; Rigid Motion Sub-Topic; Locating points which are images to shapes	By the end of the lesson the Pupil will be able to; Locate points which are images to shapes through given angles. RPK Pupils were taught lessons on Rigid Motion in basic 7.	Introduction Show Learners video and pictures of how to locate points which are images to shapes . Activities <ol style="list-style-type: none">1. Demonstrate how to locate points of shapes on a graph.2. Discuss with Pupils how to draw points or coordinate of images	Rotations About The Origin 90 Degree Rotation When rotating a point 90 degrees counterclockwise about the origin our point $A(x,y)$ becomes $A'(-y,x)$. In other words, switch x and y and make y negative.  <p>90 Counterclockwise Rotation</p> <p>Calcworkshop.com</p>	Exercise;  <p>With origin (0,0) rotate the point (2,3) by</p> <ol style="list-style-type: none">a. Clockwise 90°b. Anticlockwise 90°c. Through 180°

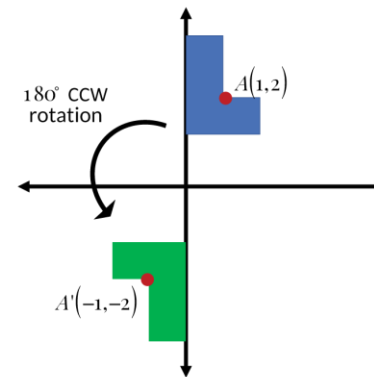
- on a given point.
- Individual Pupils to practice drawing coordinate of images on a given line and shape under clockwise or anti-clockwise rotation through a given angle.

Closure

Through questions and answers, conclude the lesson.

180 Degree Rotation

When rotating a point 180 degrees Counterclockwise about the origin our point $A(x,y)$ becomes $A'(-x,-y)$. So all we do is make both x and y negative.

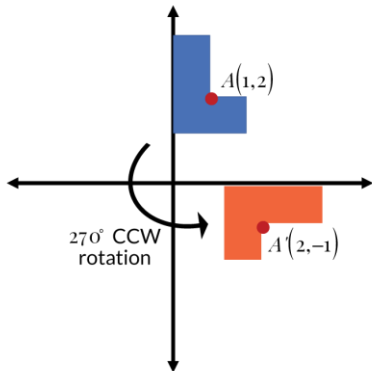
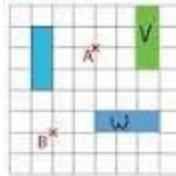

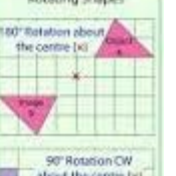


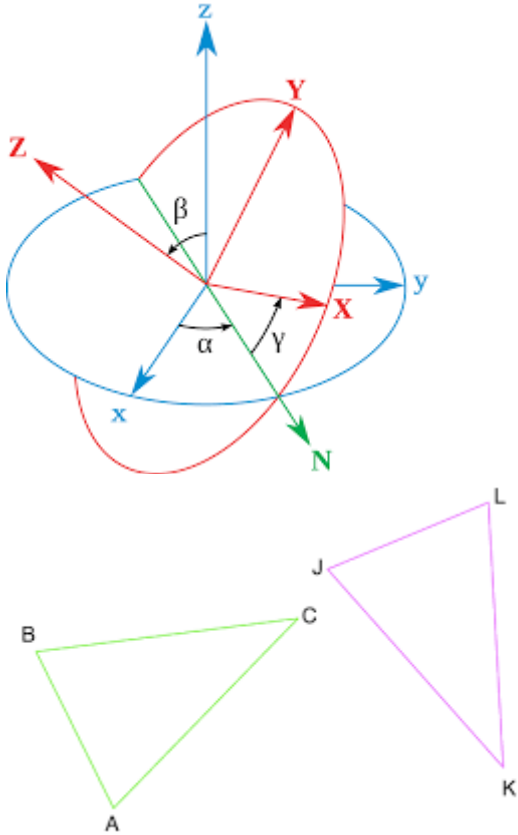
Calcwor

180 Counterclockwise Rotation

270 Degree Rotation

When rotating a point 270 degrees counter clockwise about the origin our point $A(x,y)$ becomes $A'(y,-x)$. This means, we switch x and y and make x negative.

					<div><p>Calcwor</p></div>	
<div><div>FRIDAY</div><div>9:15AM – 10:25AM</div><div>70mins</div></div>	<div><div>Topic;</div><div>Rigid Motion</div></div> <div><div>Sub-Topic;</div><div>Properties of Object under Rotation</div></div>	<div><div>Objective</div><div>By the end of the lesson the Pupil will be able to; Explain the properties of objects under Rotation.</div></div> <div><div>RPK</div><div>Pupils were taught lessons on Rigid Motion in basic 7.</div></div>	<div><div>Introduction</div><div>Review Pupils knowledge on the previous lesson.</div></div> <div><div>Activities</div><div><div>1. Discuss with Pupils the properties of objects under rotation, with respect to its similarity, congruence and orientation.</div><div>2. Pupils in small groups to discuss</div></div></div>	<div><div>Rotations</div><div>Learning Objective: Identify properties and describe the results of rotations as applied to given figures.</div><div><div><p>Rotate the object 180° about A. Label the image V.</p></div><div><p>Rotate the object 180° about C. Label the image Y.</p></div><div><p>Rotate the object 90° CW about B. Label the image Z.</p></div></div><div><div>Rotating Shapes</div><div>180° Rotation about the centre (x)</div><div>90° Rotation CW about the centre (x)</div></div><div><div>If one shape can become another using Turns, Flips and/or Slides, then the shapes are Congruent: Rotation.</div></div><div><div>Congruence</div><div>Understanding Congruence</div><div>Definition: 2 figures are congruent if you can translate, rotate, and/or reflect one shape to get the other.</div><div><div>Translation</div><div>Rotation</div><div>Reflection</div></div><div><div>Determining Congruence</div><div>Example 1</div><div>Example 2</div><div>Example 3</div></div><div><div>SCHOOL 21</div></div></div><div><div>'An orientation is the destination that you reach at the end of a rotation; the rotation is the route to</div></div></div>	<div><div>Exercise;</div><div>given the points/coordinates of the image of a shape under rotation through a given angle about the origin (, , and , draw the original shape in the coordinates plane.</div></div>	

			<p>and report to the class the meanings of the properties of objects under rotation.</p> <p>Closure Through questions and answers, conclude the lesson</p>	<p>that destination. ' 'Orientations only allow you to rotate from 0 to 360 degrees, whereas rotations allow you to go beyond 360 degrees.</p> 	
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School:

District: