

## SECOND TERM WEEKLY LESSON NOTES

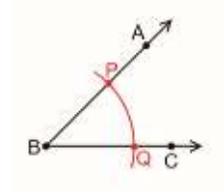
## WEEK 12

<b>Date:</b> 29 <sup>TH</sup> JULY, 2022	<b>DAY:</b>	<b>Subject:</b> Mathematics
<b>Duration:</b>		<b>Strand:</b> Geometry & Measurement
<b>Class:</b> B7	<b>Class Size:</b>	<b>Sub Strand:</b> Shape and Space
<b>Content Standard:</b> B7.3.1.2 Demonstrate how to construct a perpendicular to a line from a given point		<b>Indicator:</b> B7.3.1.2.3: Copy and bisect angles
<b>Performance Indicator:</b> Learners can copy and bisect angles		<b>Lesson:</b> 1 of 2
<b>References:</b> Mathematics Curriculum Pg. 51-52		<b>Core Competencies:</b> Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)

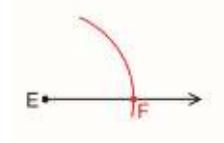
Phase/Duration	Learners Activities	Resources
<b>PHASE 1: STARTER</b>	<p>Revise with learners on the previous lesson. Call volunteer learners to the board to solve sample questions.</p> <p>Introduce the lesson by sharing performance indicators.</p>	
<b>PHASE 2: NEW LEARNING</b>	<p>Guide learners to use a pair of compasses and a ruler to copy a given angle <math>A</math>.</p> <p>Steps: Draw a line and locate point <math>B</math>; copy the arc <math>ST</math> and transfer using <math>B</math> as center to obtain <math>VW</math>, join <math>B</math> and <math>W</math> to obtain the copied angle.</p>	<p>Rule, pencil , a pair of compass, a pair of divider and protractor.</p>

Guide learners to construct an angle  $\angle DEF$  congruent to angle  $ABC$

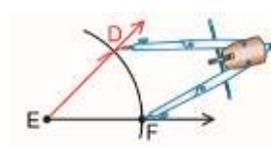
Step 1: put the compass point on B. construct an arc that intersects both rays of the angle at P and Q.



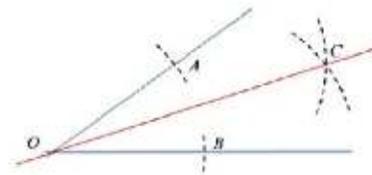
Step 2: use a straightedge to draw a ray with endpoint E. with the compass point on E, and the same compass opening as in step 1, construct an arc that intersects the ray at F.



Step 3: open the compass to measure the length PQ. With the same compass opening and the compass point on F., construct an arc that intersects the other arc at D. draw ED



Guide learners to perform geometric construction to bisect a given angle.



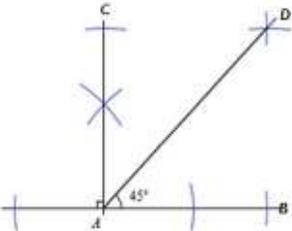
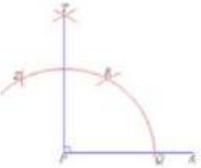
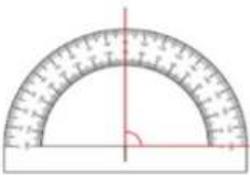
- (i) Sketch any acute angle and label it  $AAAACC$ .
- (ii) Copy the angle, measure and record its value.
- (iii) Sketch any angle and ask a colleague to copy the angle.

**PHASE 3:  
REFLECTION**

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

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<b>Duration:</b>		<b>Strand:</b> Geometry & Measurement
<b>Class:</b> B7	<b>Class Size:</b>	<b>Sub Strand:</b> Shape and Space
<b>Content Standard:</b> B7.3.1.2 Demonstrate how bisect a line, bisect angles, and construct angles of the following sizes: 30°, 45°, 60°, 75° and 90°	<b>Indicator:</b> B7.3.1.2.4: Construct angles of 90° and 45°	<b>Lesson:</b> 2 of 2
<b>Performance Indicator:</b> Learners can construct angles of 90° and 45°		<b>Core Competencies:</b> Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)
<b>References:</b> Mathematics Curriculum Pg. 51-52		

Phase/Duration	Learners Activities	Resources
<b>PHASE 1: STARTER</b>	<p>Revise with learners on the previous lesson. Call volunteer learners to the board to solve sample questions.</p> <p>Introduce the lesson by sharing performance indicators.</p>	
<b>PHASE 2: NEW LEARNING</b>	<p>Guide learners to use a pair of compasses and a ruler to construct an angle of 90°. Raise a perpendicular at a point) on a given line segment and verify using the protractor. (The line segment <math>PT</math> is perpendicular to <math>PA</math> therefore <math>\angle APT = 90^\circ</math>)</p>    <p>Have learners construct an angle of 45° by bisecting an angle of 90°.</p> <p><u>Assessment</u></p> <ol style="list-style-type: none"> <li>I. Construct <math>\angle ABC = 45^\circ</math> such that <math> AB  = 5\text{cm}</math> and <math> BC  = 6\text{cm}</math>. bisect <math>\angle ABC = 45^\circ</math></li> <li>II. Construct <math>\angle ABC = 90^\circ</math> and bisect it.</li> </ol>	<p>Rule, pencil , a pair of compass, a pair of divider and protractor.</p>

<b>PHASE 3:</b> <b>REFLECTION</b>	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.  Take feedback from learners and summarize the lesson.	
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