

EaD Comprehensive Lesson Plans



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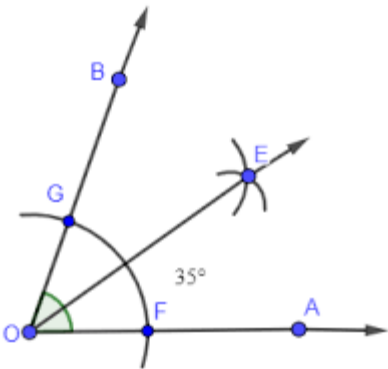
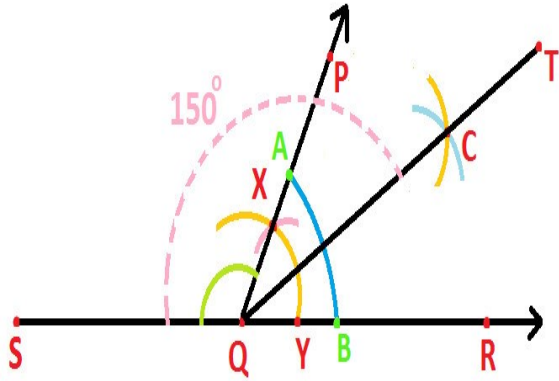
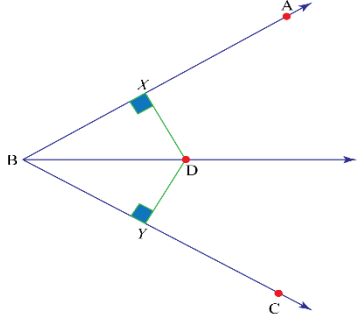
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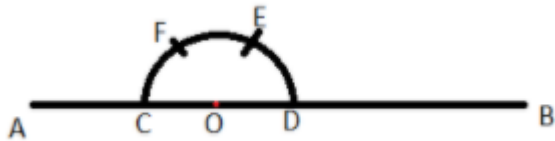
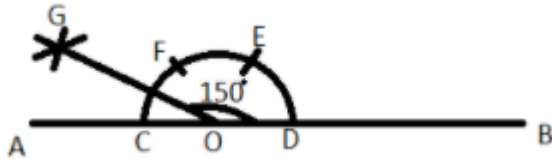
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BASIC 8

WEEKLY LESSON PLAN – WEEK 5

Strand:	Geometry and Measurement		Sub-Strand:	Lines and shapes	
Content Standard:	B8.3.1.2 Demonstrate the ability to perform geometric constructions of the angles (75°, 105°, 60°, 135° and 150°), and construct triangles and find locus of points under given conditions				
Indicator (s)	B8.3.1.2.1 Construct and bisect angles of 120°, 105°, 135° and 150° B8.3.1.2.2: Construct scalene triangles, isosceles triangles, equilateral triangles, obtuse-angled triangle, acute-angled triangles in different orientations under given conditions.		Performance Indicator: Learners can verify an angle with a protractor.		
Week Ending	05-05-2023				
Class	B.S.8	Class Size:		Duration:	
Subject	Mathematics				
Reference	Mathematics Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.				
Teaching / Learning Resources	Poster, Pictures, Word Chart.		Core Competencies:	<ul style="list-style-type: none">Ability to select the most effective creative tools for working and preparedness to give explanationsImagining and seeing things in a different way	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION
MONDAY 01-05-2023	Learners brainstorm to identify the six (6) basic constructions	<div>1. Assist learners to use a pair of a compass and a ruler to construct angles of different degrees.</div> <div>2. Demonstrate how to draw arcs on angles to construct another angle.</div> <div>3. Learners practice constructing angles from angle by using a pair of compass and a ruler.</div> <div>4. Assist Learners to verify angles formed by using a protractor.</div> <div>six basic constructions:<ul style="list-style-type: none">Copying a line segment.Copying an angle.Creating a perpendicular bisector.Creating an angle bisector.Creating parallel lines.</div>			<div>Reflect on how to bisect angles to form another angle.</div> <div>Exercise;<div>(i) Construct the following angles;<div>a) 70°</div><div>b) 100°</div><div>c) 130°</div><div>d) 124°</div></div><div>(ii) Construct the bisector of each of the angles in question 1.</div></div>

		<ul style="list-style-type: none"> Creating a perpendicular line through a given point. <p>Constructing a 70° angle</p> <p>Steps: 1. Draw a ray AB</p> <p>2. Using a protractor, measure an angle of 70° at A</p> <p>3. Placing the compass at A, draw the arc BC</p> <p>4. With compass on C draw an arc</p> <p>5. Without changing the width of the compass place, it on B and draw another arc</p> <p>6. Mark the intersection point G 7. Join B to G</p> 	
<p>TUESDAY 02-05-2023</p>	<p>Review Learners knowledge on the previous lesson.</p>	<ol style="list-style-type: none"> Assist Learners to use a pair of compasses and a ruler to perform geometric construction of an angle of 150° Learners brainstorm to measure the angle constructed using a Protractor. Assign to small groups of Learners different angle degrees to construct and present to the class.  <p>Steps to follow to construct a 150°angle;</p> <p>(i) First draw a horizontal line AB of some appropriate distance as shown below.</p>	<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <ol style="list-style-type: none"> In the figure below, BD bisects $\angle ABC$  <ol style="list-style-type: none"> Construct a rectangle, ABCD, using the following measurements;

		 <p>(ii) Now draw a semicircle from any point (O) on the line AB with some appropriate radius less than AB, which cuts the line AB at C and D as shown in the below figure.</p>  <p>(iii) Now with same radius mark the arc on the semicircle from point D which cuts the semicircle at point E, now again with same radius mark the arc on the semicircle from point E which cuts the semicircle at point F as shown below.</p>  <p>(iv) Now make an arc from point F with some appropriate distance and again with same distance mark an arc from point C which cuts the previous arc at point G as shown below, then join the points O and G as shown below</p>  <p>So angle GOB is the required 150 angle.</p>	<p>(i) $AB = 12 \text{ cm}$, $CB = 4 \text{ cm}$</p> <p>(ii) $AB = 6 \text{ cm}$, $CB = 3.5 \text{ cm}$</p> <p>(iii) $AB = 2.8 \text{ cm}$, $CB = 6.6 \text{ cm}$</p>
<p>THURSDAY</p> <p>04-05-2023</p>	<p>Learners brainstorm to identify the types of Triangles.</p>	<ol style="list-style-type: none"> 1. Assist Learners to use a pair of compass and a ruler to construct an equilateral triangle when a side is given. 2. Learners to practice measuring the size of the angle constructed with a protractor. 3. Demonstrate on how to use a pair of compass and a ruler to perform geometric construction of an isosceles right-angled triangle when the base line is given. 4. Discuss with learners on how to use a pair of compasses and a ruler to perform geometric construction of an isosceles an isosceles triangle when all the sides are given. <p>Example;</p>	<p>Reflect on how to construct the various types of triangles.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. Construct an equilateral triangle of sides 4 cm. 2. Construct an equilateral triangle of side 5.5 cm. 3. Construct an equilateral triangle ABC with side 7cm.

Construct triangle with sides 5 cm, 4 cm, and 6 cm. Then construct another triangle whose sides are 2/3 times the corresponding sides of triangle

Solution



Step 1

Draw a line segment $AB = 4$ cm. taking point A as centre, draw an arc of 5 cm radius.

Similarly, taking point B as its centre, draw an arc of 6 cm radius. These arcs will intersect each other at point C. Now, $AC = 5$ cm and $BC = 6$ cm and $\triangle ABC$ is the required triangle



Step 2

Draw a ray AX making an acute angle with line AB on the opposite side of vertex C.



Step 3

Locate 3 points A_1, A_2, A_3 (as 3 is greater between 2 and 3) on line AX such that $AA_1 = A_1A_2 = A_2A_3$.



Step 4

Join BA_3 and draw a line through A_2 parallel to BA_3 to intersect AB at point B' .

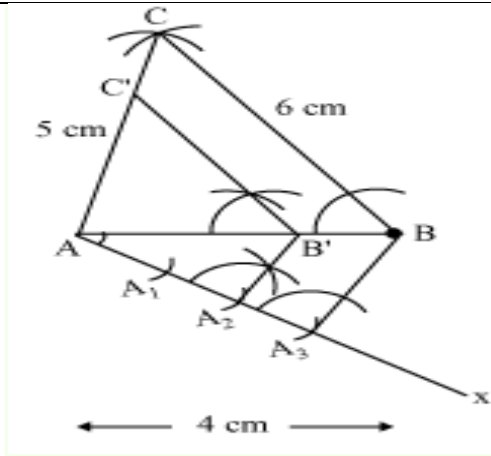


Step 5

Draw a line through B' parallel to the line BC to intersect AC at C' .

$\triangle AB'C'$ is the required triangle.

4. Construct an equilateral triangle ABC of side 6 cm.
5. Construct an equilateral triangle with each side 5 cm. Then construct another triangle whose sides are 2/3 times the corresponding sides of $\triangle ABC$.



Name of Teacher:

School:

District: