## **EaD Comprehensive Lesson Plans**

Strand:	Geometry and Measurement	Sub-Strand:	Lines and shapes
Content	B8.3.1.2 Demonstrate the ability 150°), and construct triangles and	1	constructions of the angles (75°, 105°, 60°, 135° and under given conditions

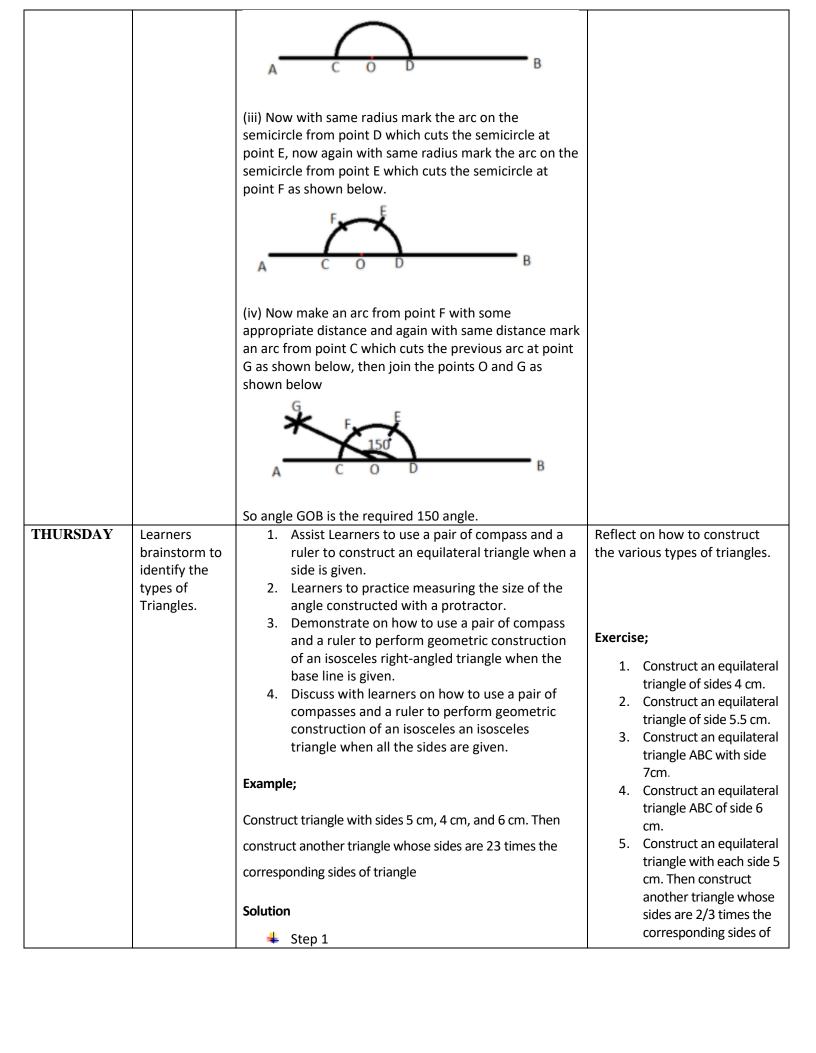


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BASIC 8
WEEKLY LESSON PLAN – WEEK 8

Standard:						
	B8.3.1.2.1 Cons	truct and bisect angle	es of	Performance	Indicator:	Learners can verify an angle with a
Indicator (s)	B8.3.1.2.1 Construct and offsect 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.		protractor.			
Week Ending	01-03-2024					
Class	B.S.8	Class Size:		Dura	ation:	
Subject	Mathematics	1				1
Reference	Mathematics Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.					
Teaching / Learning Resources	Poster, Pictures, Word Chart.		Core ompetencies:	effective working a to give ex	<ul> <li>Ability to select the most effective creative tools for working and preparedness to give explanations</li> <li>Imagining and seeing things in a different way</li> </ul>	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION	
MONDAY	Learners brainstorm to identify the six (6) basic constructions	<ol> <li>Assist learners to use a pair of a compass and a ruler to construct angles of different degrees.</li> <li>Demonstrate how to draw arcs on angles to construct another angle.</li> <li>Learners practice constructing angles from angle by using a pair of compass and a ruler.</li> <li>Assist Learners to verify angles formed by using a protractor.</li> <li>six basic constructions:         <ul> <li>Copying a line segment.</li> <li>Copying an angle.</li> <li>Creating a perpendicular bisector.</li> <li>Creating parallel lines.</li> <li>Creating a perpendicular line through a given point.</li> </ul> </li> <li>Constructing a 70° angle</li> </ol>			to form another angle.  Exercise;  (i) Construct the following angles; a) 70° b) 100° c) 130° d) 124°  (ii) Construct the bisector of each of the angles in question 1.	
		Steps: 1. Draw a ray AB				

		2. Using a protractor, measure an angle of 70° at A			
		3. Placing the compass at A, draw the arc BC			
		4. With compass on C draw an arc			
		5. Without changing the width of the compass place, it on B and draw another arc			
		6. Mark the intersection point G 7. Join B to G			
		G E A A			
TUESDAY	Review Learners	Assist Learners to use a pair of compasses and a ruler to perform geometric construction of an	Through questions and answers, conclude the lesson.		
	knowledge on the previous lesson.	angle of 150°  2. Learners brainstorm to measure the angle constructed using a Protractor.  3. Assign to small groups of Learners different angle degrees to construct and present to the class.	Exercise;  1. In the figure below, BD bisects ∠ABC∠		
		T T T T T T T T T T T T T T T T T T T	B D C		
		Steps to follow to construct a 150°angle;	<ol><li>Construct a rectangle, ABCD, using the</li></ol>		
			following		
		(i) First draw a horizontal line AB of some appropriate distance as shown below.	measurements; (i)  AB  = 12 cm,		
		А В	CB  = 4 cm (ii)  AB  = 6 cm,  CB  = 3·5 cm		
		(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.	(iii)  AB  = 2·8 cm,  CB  = 6·6 cm		



ΔABC. 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  $\Delta ABC$  is the required triangle 4 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 A1,A2,A3 (as 3 is greater between 2 and 3) on line AX such that AA1=A1A2=A2A3. Step 4 Join BA3 and draw a line through A2 parallel to BA3 to intersect AB at point B'. 4 Step 5 Draw a line through B' parallel to the line BC to intersect AC at C'.  $\Delta AB'C'$  is the required triangle. 6 cm 5 cm

Name of Teacher: School: District: