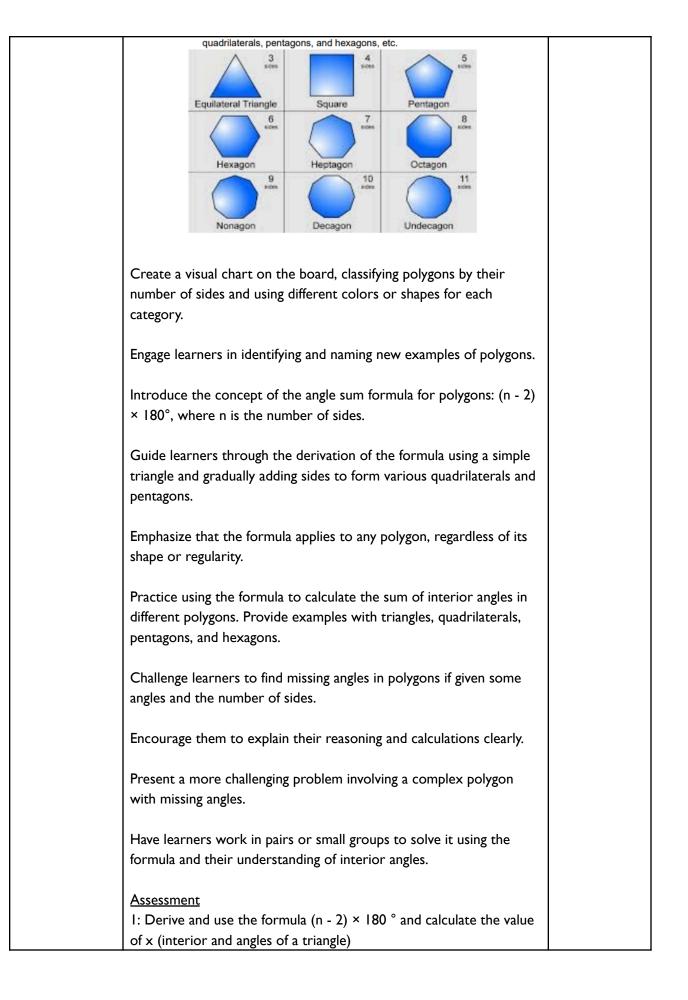
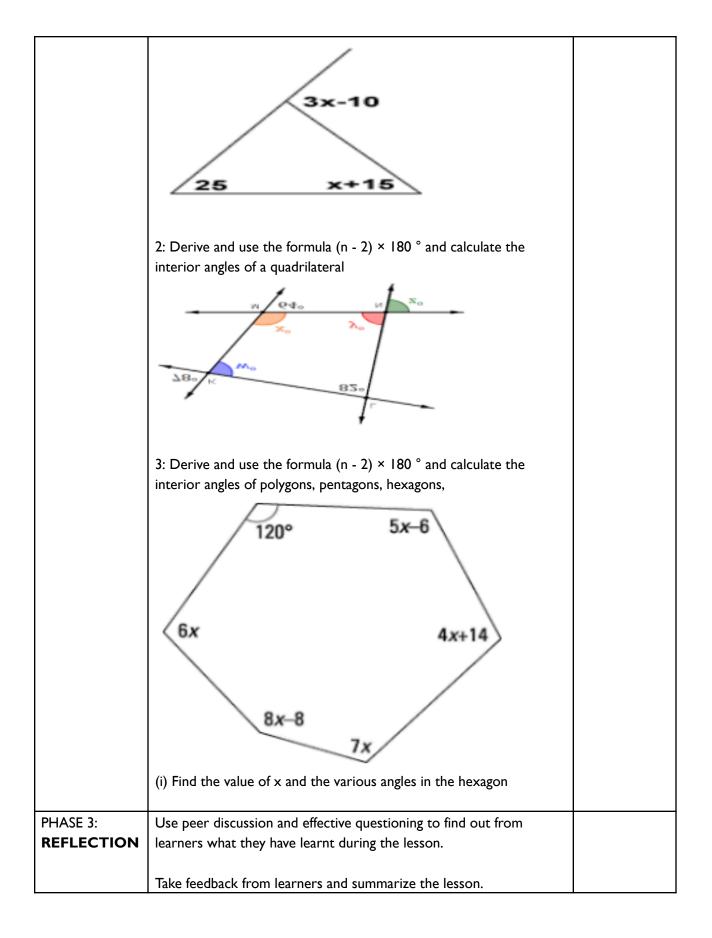
SECOND TERM WEEKLY LESSON NOTES WEEK 10

Week Ending:		DAY:		Subject: Mathematics	
Duration: 60MINS				Strand: Geometry & Measurement	
Class: B9		Class Size:		Sub Strand: Shapes and Space	
Content Standard: B9.3.1.1 Apply the properties of angles at a point, angles on a straight line, vertically opposite angles, corresponding, angles to` solve problems			calcular polygo	for: I.I Derive the formula for ting the sum of angles in any n and use this to calculate the f missing angles in polygons	Lesson:
Performance Indicator: Core Competencies: Learners can apply the formula to find missing angles Communication and Collaboratio and solve problems involving polygons. Thinking and Problem solving (CF References: Mathematics Curriculum Pg. 196 New words: Polygon, Triangle, Quadrilateral, Pentagon, Hexagon, Interior Angle					· · /
Phase/Duration PHASE I: STARTER	Learners ActivitiesResourcesPlay a quick "name the polygon" game. Show various shapes (triangles, squares, rectangles, etc.) and have learners identify them by name.Briefly introduce the concept of interior angles: the angles formed inside a polygon by its sides.Share performance indicators and introduce the lesson.				
PHASE 2: NEW LEARNING	Review the characteristics of different polygons: triangles (3 sides, manipulatives			like counters or	





Week Ending:		DAY:		Subject: Mathematics		
Duration: 60MINS				Strand: Geometry & Measurement		
Class: B9		Class Size:		Sub Strand: Shapes and Space		
Content Standard: B9.3.1.1 Apply the properties of angles at a poir angles on a straight line, vertically opposite angles, corresponding, angles to` solve problem Performance Indicator: Learners can apply the AA, SSS, and SAS similar criteria to solve for missing angles in similar tria References: Mathematics Curriculum Pg. 198 New words: Triangle, Similar, Congruent, Corre		y opposite solve problems and SAS similarity es in similar triangle ulum Pg. 198	congr know	I.I.2 Identify similar and ruent triangles and use the ledge to solve related problems Core Competencies: Communication and Collaboratio Thinking and Problem solving (CP	n (CC) Critical)	
Phase/Duration PHASE I: STARTER	Learners ActivitiesResourcesPlay a "Guess the Triangle" game. Describe different triangles by their properties (number of sides, side lengths, angle measures) and have learners guess if they are similar, congruent, or neither.				Resources	
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson.Define and differentiate between similar and congruent triangles, emphasizing corresponding angles and proportional sides in similar triangles and identical side lengths and angles in congruent triangles.manipulatives like counters or algebra tilesExplain the AA, SSS, and SAS similarity criteria with clear visuals and examples.manipulatives like counters or algebra tilesExample 1: Recognise similar triangles and solve for the values of the indicated angles in the diagram below:manipulatives like counters or algebra tilesExample 2: Recognise congruent triangles and solve for the values of the indicated angles in the diagram belowmanipulatives like counters or algebra tilesExample 2: Recognise congruent triangles and solve for the values of the indicated angles in the diagram belowmanipulatives like counters or algebra tilesManual DifferenceImage: manipulation of the diagram belowmanipulatives like counters or algebra tiles					

	Evenuela 2. Determine the value of v (using la suite destingtions)			
	Example 3: Determine the value of x (using knowledge in similarity			
	and congruency).			
	a c h a do c h			
	Briefly introduce the HL congruence rule, focusing on right triangles with hypotenuse and a leg having the same length.			
	Practice recognizing similar and congruent triangles based on the given diagrams you mentioned. Guide learners through identifying corresponding angles and proportional sides to justify their answers.			
	Ask learners to solve for missing angles in the similar triangles using the appropriate similarity criteria and proportional side ratios.			
	For the congruent triangle, apply the HL congruence rule to find the missing angle based on the given hypotenuse and leg lengths.			
	Present a real-world problem involving similar triangles, such as calculating the height of a tree based on its shadow and another object's height.			
	Challenge learners to solve the problem using the AA similarity criteria and their understanding of proportional sides.			
	Encourage them to think of other situations where similar or congruent triangles might be present in daily life.			
PHASE 3:	Use peer discussion and effective questioning to find out from			
REFLECTION	learners what they have learnt during the lesson.			
	Take feedback from learners and summarize the lesson.			