



Measurement				
	Topics/Objectives	Main Concepts	Teaching Learning	Assessment/Homework Activities
	a. Estimate, measure and record distances including the perimeter of polygons in millimetres and/or centimetres and metres.	Millimetres Polygons Centimetres Metres Perimeter Regular polygon Irregular polygon Area Length Unit	Allow students to estimate, measure and record the length of sides for polygons in groups. Calculate the perimeter of these polygons. Extend activity to things in the classroom and school environment that have the shape of a polygon or have polygon faces. Guide students in recording information in millimetres, centimetres and metres in a given table. (SEE Resource Document, for table) 7 3 3 7 7 7 7	 Have students answer questions where they are required to use estimation skills to assist in finding perimeter of objects in millimetres, centimetres and metres. Eg. 1. Draw objects or shapes of things in the environment that you thinks could have a possible perimeter of:
	 b. Solve problems requiring the calculation of one of the following: The perimeter. Length of one side. The number of sides of a regular polygon, given the other two measures. 		 Allow students to explore real life situations that requires them to calculate the perimeter of polygons. Extend situations to cases where students have to find the missing lengths of one side and the number of sides of a regular polygon, given the other two measures using their previous knowledge of properties of polygons. (See Resource document) e.g. 1. A rectangular garden has a fencing of 24 m. What are the possible dimensions of the garden in cm/ m? Incorporate the use of manipulative such as square tiles, Cuisenaire rods to create samples of shapes with possible dimensions reflecting the stated perimeter. (See perimeter in example stated above) 	 i. 6m ii. 100cm iii. 250mm NB. Write in possible lengths of sides. Allow students to work in groups to estimate and calculate the actual distances/ locations and perimeter of different shapes. <i>(See resource Doc, Activity 2.)</i>





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		Home work:
		Allow students to research polygons in real life on the internet. Have them create a model of one of these things highlighting the actual perimeter that they should have in the most appropriate unit. Eg. netball court, cricket pitch, stop sign etc
 c. Develop the relationship between units of length and units of area. d. Find the area of 	Allow students to use interlocking cubes to make a shape of their choice. Have students trace the shape on plain paper. They should record the lengths for the sides of the shape. They will then count the squares on one face the shape they created and record its area. Example	Count squares in order to find area of irregular shapes. See Resource Document for shapes
polygons by counting squares.	Guide students in using a ruler to draw polygons of their choices on grid paper (See resource document for sample grid). Have them counting squares and using rounding principle to count square more or less than half. See	





	example below.	
	How many squares do each of these shapes cover?	

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e. Differentiate	Hectare	Guide students in a discussion, as to the appropriate unit of	Give students the
between the use	Centimetre	measurement given various measurement situations.	following scenario:
of the square	Metre	Example: Area of the screen of a laptop/monitor (square	1. Mr. Brown has a
centimetre, the	Square	centimetres). Area of the classroom (square metres) and	rectangular pool of
square metre and	Ūnit	Area of a plot of land (hectares).	length 37m, and width
the hectare in	Area		15m, that is infested
measurement	Rectangular		with frogs and he wants
situations	Perimeter		to cover it. How much
			mesh will he need to
			buy in order to cover the
			pool?
			2. Have students'
			complete activity.
f. Compute the		Give students situations and allow them to use square tiles	Guide students in
measurement of		in groups to model for the best outcome as it relates to	playing game with a pair
the area of		finding largest/smallest possible perimeter that can be	of dice. They will use
rectangular		obtained given a specified area	the numbers obtained on
regions using the		Example:	the dice as lengths of
square			side for rectangular
centimetre or		RADA has promised a farmer a plot of land measure 24	regions. They will create
square metre as		square metres.	a nouse floor plan on a
uiiit.		a Use square tiles to design a possible shares that	grid by drawing
g. investigate then		a. Use square thes to design a possible snapes that	their and to represent
langest/ smallest		h What is the largest possible perimeter that can be	different parts of the
nargest/ smallest		b. What is the largest possible perimeter that can be	house. The person with
con be obtained		What is the smallest possible perimeter that can be	the largest area and
given a specified		obtained from this area?	nerimeter on their floor
given a specified		d Make recommendations to this former as to the	plan wine (Saa rasoursa
 aita.		u. Wrake recommendations to unis farmer as to the	pian wins <mark>. (See resource</mark>





		best shape to use if the purpose of the land is rare either animals or plant crops.	document for example).	
h. Solve problems based on computing the measurement of the area of a rectangular region.	5 H t C	Students will be shown a diagram of a tiled rectangular hallway. Allow students to count the number of square tiles that make up area of the hallway. Have students derive a formula for finding the area of the hallway.	Have students create rectangular regions on grids in Microsoft word application based on given area.	
		3 rows of 9 square units 3 X $9 = 27$ square units Use ruler to measure length and width of rectangular objects in their classroom. Allow students to find the area of these shapes using the derived formula. Give students the following scenario: A cricket pitch was prepared for an upcoming match. It is to be protected from rain and other elements. Come up with possible dimensions for a regular covering if the pitch is of length 20m and width 3m. Ensure that the area is not more than 100 square metres. Use the dimensions selected to calculate the area of the covering to be used to protect the pitch from rain and other elements.		