**SCHEME OF WORK**

**NAME:** CHRISTINE ADHIAMBO **REG NO:** TU01-SE218-0337/2019 **TERM:** TWO  
**SUBJECT:** MATHEMATICS **SCHOOL:** BUNYORE GIRLS HIGH SCHOOL **YEAR:** 2022   
**CLASS:** FORM 2 RED

**General learning outcomes.**By the end of the lesson the students should be able to:

1. Find the area of the quadrilateral.
2. Find the area of other polygons (regular and irregular).
3. Find the area of the sector.
4. Find the area of the segment.
5. Find the area of the common region.

**REFERENCES:** K.L.B (2007) Student mathematics BK2 PAGE 160-176. Teachers notes.

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| **WEEK** | **LESSON NO.** | **TOPIC/SUB TOPIC** | **OBJECTIVES** | **TEACHING/LEARNING**  **ACTIVITIES** | **T/L RESOURCES** | **REFERENCES** | **REMARKS** |
| **1** | 1 | **AREA OF QUADRILATERAL**   1. Quadrilateral 2. Area of parallelogram | By the end of the lesson the learner should be able to;   1. Define the term quadrilateral and give the examples of quadrilaterals. 2. Calculate the area of a rectangle, square and parallelogram. 3. Draw a square, rectangle and a parallelogram. | Teacher defines the term quadrilateral and asks the students example of quadrilateral.  Student answers the question.  Teachers demonstrate how to construct the areas of a square, rectangle and a parallelogram.  Student work in their exercise books an exercise given by the teacher. | Chart drawn different types of quadrilaterals.  Teachers notes. | K.L.B (2007) student mathematics Bk.2 PAGE 160-161. |  |
| 2 | Area of a rhombus | 1. Calculate the area of a rhombus. 2. Define a rhombus 3. Draw a rhombus | Teacher demonstrate on the board on how to calculate the area of a rhombus.  Students note down the formula for calculating the area of a rhombus and work an exercise on their books | Chart drawn a rhombus | K.L.B (2007) student mathematics Bk.2 PAGE 161-162. |  |
| 3 | Area of trapezium. | 1. Define a trapezium. 2. Draw a trapezium. 3. Calculate the area of a trapezium. | Teacher explains what a trapezium is and calculate the area of a trapezium.  Students work an example on their exercise books. | Chart drawn a trapezium. | K.L.B (2007) student mathematics Bk.2 PAGE 161-163. |  |
| 4 | Area of a kite. | 1. Calculate the area of a kite. 2. Darw a kite. 3. Construct/make a kite. | Teacher demonstrate how to make a kite.  Teacher demonstrate how to calculate the area of a kite.  Students in a group of five makes a kite. | Chart drawn a kite.  Paper, strings, pieces of sticks. | K.L.B (2007) student mathematics Bk.2 PAGE 161-163.  Teachers notes. |  |
| 5 | Area of regular polygon and irregular polygon. | 1. Calculate the area of regular and irregular polygon. 2. Draw regular and irregular polygons | Teacher calculate the area of a regular and irregular polygon.  Teacher shows them examples of polygons | Charts drawn regular and irregular polygons.  A 5/= coin. | K.L.B (2007) student mathematics Bk.2 PAGE 161-163.  Teachers notes. |  |
| **2** | 1 | **AREA OF PART OF A CIRCLE.**   1. Sector 2. Area of a sector. | By the end of the lesson the learner should be able to;   1. Define various parts of a circle. 2. Draw a circle showing the sector, chord, radius e.t.c. 3. Calculate area of a sector, radius and an angle. | Teacher draw a circle and indicates different parts.  Teacher demonstrate how to calculate the area of a sector, radius and angle.  Students work out the exercise in their exercise books on the same. | Chart drawn a circle and its parts labeled. | K.L.B (2007) student mathematics Bk.2 PAGE 167-169. |  |
|  | 2 | Area of a segment of a circle. | 1. Define a segment, arc and chord. 2. Draw a segment. 3. Calculate the area of a segment. | Teacher draws a circle indicating a segment, arc and chord.  Teacher demonstrate how to calculate area of a segment. | Chart drawn a circle showing segment. | K.L.B (2007) student mathematics Bk.2 PAGE 169-170. |  |
|  | 3 and 4 | Area between two common region between two intersecting circles. | 1. Draw two intersecting circles with a common region. 2. Calculate the area of a common region between two intersecting circles | Teacher demonstrate how to calculate the area of a common region between two intersecting circles.  Students work out an exercise on their exercise book on the same. | Chart drawn intersecting circles.  Teachers notes. | K.L.B (2007) student mathematics Bk.2 PAGE 173-176. |  |