BASIC 7

WEEKLY LESSON PLAN – WEEK 8

Learning Indicator(s)	B7.3.3.3		
Performance Indicator	B7.3.3.3.1 Determine shapes in real life that have reflectional (or fold) symmetries. B7.3.3.3.2 Plot points and shapes (i.e. plane figures) on a coordinate plane and draw their images under reflection in given lines		
Week Ending	04-11-2022		
FORM	B.S.7		
Subject	Mathematics		
Reference	Teachers Resource Pack, Learners Resource Pack, Textbook.		
Teaching / Learning Resources	Shapes, Pictures, Meter Rule, Pencil		
DAYS	PHASE 1 : STARTER	PHASE 2: MAIN	PHASE 3: REFECTION
MONDAY 01-11-2022	Discuss the meaning of Reflectional Symmetry with the Learners.	1. Learners brainstorm to state examples of shapes. 2. Assist Learners to determine whether shapes mentioned has reflectional symmetry. 3. Discuss examples of reflectional symmetry with the learners. **How do you know if a shape has reflection symmetry?** A shape has reflection symmetry if there exists a line of reflection that carries the shape onto itself. This line of reflection is called a line of symmetry. In other words, if you can reflect a shape across a line and the shape looks like it never moved, it has reflection symmetry.	**Core Competencies;** 1. Identify important and appropriate alternatives 2. Preparedness to recognise and explain results after implementation of plans 3. Imagining and seeing things in a different way 4. Recognise and generalise information

Shapes for Symmetry

.ine of Symmetry

Line of Symmetry

and experience; search for trends and patterns

| TUESDAY 02-11-2022 | Learners brainstorm to identify real life examples of reflectional Symmetry. | 1. Discuss with Learners the different ways a square can be shaded to have a line of symmetry.
2. Learners individually practice shading squares to have line of symmetries.

Lines Of Symmetry In A Square

Lines of Symmetry in Quadrilaterals

Lines of Symmetry in Polygons

Nyame Biribi   Sesa Wo Suban   Sankofa

Pempamsie   Tamfo Bebre   Woforo Dua Pa A

Wo Nsa Da Mu A   Wawa Aba   Mmere Dane | **Core Competencies;**

1. Identify important and appropriate alternatives
2. Preparedness to recognise and explain results after implementation of plans
3. Imagining and seeing things in a different way
4. Recognise and generalise information and experience; search for trends and patterns |

| THURSDAY 03-11-2022 | Learners brainstorm to give examples of Symmetric shapes. | 1. Assist Learners to identify symmetry of quadrilaterals.
2. Discuss the quadrilaterals with different symmetrical properties.

Square

• A square has four lines of symmetry.
• It has rotational symmetry of order four.

Rectangle

• A rectangle has two lines of symmetry.
• It has rotational symmetry of order two.

Parallelogram

• A parallelogram has no lines of symmetry.
• It has rotational symmetry of order two.

Rhombus

• A rhombus has two lines of symmetry.
• It has rotational symmetry of order two.

Trapezium

• A trapezium has rotational symmetry of order one.
• Some trapeziums have one line of symmetry. They are called **isosceles trapeziums** as they have 2 sides of an equal length like isosceles triangles.

Kite

• A kite has one line of symmetry.
• It has rotational symmetry of order one. | **Core Competencies;**

1. Identify important and appropriate alternatives
2. Preparedness to recognise and explain results after implementation of plans
3. Imagining and seeing things in a different way
4. Recognise and generalise information and experience ; search for trends and patterns |