** CENTRAL BICOL STATE UNIVERSITY OF AGRICULTURE**

**College of Development Education**

San Jose, Pili, Camarines Sur

SY 2017-2018

**DETAILED LESSON PLAN IN MATHEMATICS III**

January 16, 201 Thursday, 1:00-1:50

Grade 3- Mabini

1. **OBJECTIVE**

At the end of the 50-minute discussion, at least 75% of the pupils are expected to:

* 1. Identify and visualize symmetry in the environment and in design.

1. **SUBJECT MATTER**
2. **Topic:** Symmetry in the Environment and in Design
3. **Instructional materials:**
4. **Prerequisite Concepts and Skills:** 1. Concept of symmetry

2. Construction of basic shapes such as

squares, rectangles, triangles and circles.

1. **Values Integration:** Creativity
2. **References:** Mathematics Teacher’s Guide Pages 260-263

MathematicsLearner’s MaterialsPages 254-256

1. **Time Allocation:** 50 minutes
2. **INSTRUCTIONAL PROCEDURES**

|  |  |  |
| --- | --- | --- |
| **TEACHING HINTS** | **TEACHER’S ACTIVITY** | **STUDENT’S ACTIVITY** |
| **A.PRELIMINARY ACTIVITIES**  1**. Drill**  **2. Review**  **3. Motivation**  **B. DEVELOPMENTAL**  **ACTIVITIES**  **1.Presentation**  **2. Performing the Activity**  **3. Processing the Activity**  **4. Reinforcing the Concept**  **5. Summarizing the Lesson**    **C:\Users\julie anne\Documents\Bluetooth Folder\IMG20180115212655.jpg6. Applying to New and other Situations** | I have here a card. This activity entitled Mental Math. Give the name or give the number.  12 hundreds 12 tens 4 ones  21 hundreds 20 tens 20 ones  47 hundreds 8 tens  Describe each figure and name.      ●  ● ●  I have here a song about a butterfly. Follow after me.  Fly, fly the butterfly  In the morning, it’s flying high  In the meadow, it’s flying low  Fly, fly, fly, the butterfly.  What did the song describe?  I have here a picture of a butterfly.  http://dkcoin8.com/images/animated-butterfly-clipart-free-7.png  Can you describe the butterfly?  What if I fold this butterfly into two? What did you observe?  Is a butterfly equally divided into two?  The objects that divided into two equally are called symmetry.  Black and White Moth Design - Free Clip Art  Symmetry is when a figure has two sides that are mirror images of one another. You can draw a line through a picture of the objects and along either side the image would look exactly the same.  The line that drawn in the center of the image or objects is called line of symmetry.  I have here other examples of pictures that are symmetry. Identify the picture if it’s symmetrical or not.  http://moziru.com/images/symmetry-clipart-different-shape-20.jpg  http://www.chalkdust.com/mmsamples/5/chap8/images/clover.gif  Give an example of objects that look symmetrical that we can find in nature, in school, at home, and outside.  I will group you into five groups. Observe the pictures that assigned to your group. Identify if the objects or pictures are symmetrical or not symmetrical. Complete the table. And choose your leader to present your group outputs .  Direction: Write **Symmetrica**l **or Not Symmetrical** after each object and explain your answer.  Group I   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.bug |  | | 2.scissor |  | | 3.clock |  | | 4.starfish |  | | 5.ball |  |   Group II   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.Towel |  | | 2.scissor |  | | 3.egg |  | | 4.starfish |  | | 5.jeans |  |   Group III   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.slice bread |  | | 2.ball |  | | 3.bug |  | | 4.textbook |  | | 5.pencil |  |   Group IV   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.pencil |  | | 2.clock |  | | 3.egg |  | | 4.starfish |  | | 5.door |  |   Group V   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.bug |  | | 2.slice bread |  | | 3.pencil |  | | 4.eyeglass |  | | 5.textbook |  |   Criteria:  Correctness of answer 5  Time Management 5  Cooperation 5  Group Discipline 5  Total 20 pts.  What are the objects or pictures that are symmetrical?  Why are the objects or pictures that are symmetrical?  You can check the object if the shape has a line symmetry by folding it. When the folded parts match perfectly with one another, then the fold line is line symmetry.  Here I have folded a rectangle in this way, what have you observe?  Does the folded part match perfectly with one another?  So, this one does not show a line symmetry.  But if I fold it in another way, what have you noticed?  Does the folded part match perfectly with one another?  How do you call the folded line?  Let’s have another example.  https://www.klmtreefarm.com/images/douglas.jpg  Does the folded part match perfectly with one another?  Choose your pair. List down 5 objects found in the classroom that are symmetrical.  And the title of this activity is “Name Creatures”. And answer the Activity 1 and 2.  What is symmetry?  How do we know that a figure or objects or shape is symmetrical?  What other examples in the environment can we find that show symmetry?  Draw yourself. Show the symmetry of your drawing. | 12 hundreds 12 tens 4 ones = (1 234)  21 hundreds 20 tens 20 ones = (2 320)  47 hundreds 8 tens  =( 4 780)  Parallel lines  Perpendicular lines  Intersecting lines  Ray  Line segment  The song describes the butterfly.  The butterfly is beautiful.  The butterfly divided perfectly into two.  Yes.   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.bug | Symmetrical | | 2.scissor | Symmetrical | | 3.clock | Symmetrical | | 4.starfish | Symmetrical | | 5.ball | Symmetrical |   Group II   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1Towel | Symmetrical | | 2.scissor | Symmetrical | | 3.egg | Symmetrical | | 4.starfish | Symmetrical | | 5.Jeans | Symmetrical |   Group III   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.slice bread | Symmetrical | | 2.ball | Symmetrical | | 3.bug | Symmetrical | | 4. textbook | Symmetrical | | 5.pencil | Symmetrical |   Group IV   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.pencil | Symmetrical | | 2.clock | Symmetrical | | 3.egg | Symmetrica | | 4.starfish | Symmetrical | | 5.door | Symmetrical |   Group V   |  |  | | --- | --- | | Name of Objects | Symmetrical or Not Symmetrical | | 1.bug | Symmetrical | | 2.slice bread | Symmetrical | | 3.pencil | Symmetrical | | 4.eyeglass | Symmetrical | | 5.textbook | Symmetrical |   The objects that are symmetrical are books, scissor and clock.  Because they are divided into two perfectly.  The rectangle divided into two not equally.  No  The rectangle divided into two perfectly.  Yes  The folded line called line of symmetry.  Yes  Symmetry is when a figure has two parts that are mirror images of one another. A figure is symmetrical if you can draw a line through a picture of the objects and along either side the image would look exactly the same.  A figure or shape or objects is symmetrical if it can be fooled and one half is identical to the other half as the other half.  Book, door chairs. |

1. **EVALUATION**

Write the name of animals that does not shown **symmetry.**

Answer key: cat and duck

1. **HOME ACTIVITY**

Create the following in your notebook.

* 1. Draw an alien. Be creative and show the line of symmetry.
  2. Draw an object that you can see in your classroom or school. Color your drawing and show the symmetry line.

**KATE ANGELLE C. JAMIN**

Student Teacher

Noted by:

**ELENA ALCANTARA**

Cooperating Teacher