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| Name: | Date: |
| Program: Mathematics in Modern World | Score: |

**Activity 1.1 Pattern and Number in Nature and the World**

Direction:

* Look for visible patterns inside/outside the house.
* Explain why or how the objects from a pattern.

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| **Pattern** | **Explanation** | **Type of Pattern** |
|  | This flower stripes is an example of Self Organized because we can see the pattern of the flower, the create their own style by themselves rather than external intervention. | Self Organized |
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* +-Identify the pattern as Self Organized or Invoked Organized. Explain.

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**Activity 1.2 Fibonacci Sequences**

**Direction:**

* On a graph paper below, color to small squares side by side of length 1.
* Directly above these two squares, color another square of length 2. The bottom of this square touches the top of the two length-1 squares
* To the left of these three squares, color another square of length 3. It will be touching the left side of the 2- length square and one of the 1- length squares.
* On the bottom of these four square, color squares of length 5.
* On the right side of this growing array of squares, color a squares of a length 8.
* On the top of this growing array, color a square of length 13.
* Construct a spiral by drawing connected quarter arcs inside each successive square.

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**Activity 1.3 The power of Mathematics**

**Direction:**

* Create a group consisting of 5 members.

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| Scenario | Discussion |
| Going to school by commuting through jeepney from home. I need to pay my fare for every ride I take, attending classes at “USTP”. | From Kauswagan I ride a jeepney to Agfa in order for me to ride a jeepney again “PATAG KETKAI LINER” going to USTP. In the process of riding jeepney mathematics exists by giving my transportation fee to bring me to my destination. I give my money to the driver for ride payment and he will ask for my destination in order for him to calculate how much my ride costs he will going to take for my fare. |
| As a working student, I have a part-time job in Jollibee as a fryman. I do the filtering/cleaning of the Henny penny or “frying machine” within just 5minutes following the standard procedure of the company | While doing my task as a fryman after I drop three batches of chicken most often times the henny penny will suggest to do filtering. Filtering is important in doing my task to maintain the quality of the food we prepared for our customers. Filtering will suggest just to do it within 5 minutes to follow the company's protocol. the mathematics applied in filtering which has an estimated given time of 5 minutes. |

* Share a scenario where you find mathematics is important (personal experience)