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

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| Scenario | Discussion |
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* Explain how/why you apply mathematics (referring to your personal experience).