**Patterns Poster Worksheet of Function \_\_\_\_\_\_**

1. You are randomly assigned a pattern showing the first three steps. Study the pattern and make a sketch of Step 4. How many units (blocks, circles, toothpicks) are in Step 4? \_\_\_\_\_\_\_
2. Describe what Step 13 looks like using words **or** drawing a “quick” sketch. How many units (blocks, circles, toothpicks) are in Step 13? \_\_\_\_\_\_\_
3. Complete this T-chart for your function.

|  |  |
| --- | --- |
| Step | Units |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 13 |  |
| 29 |  |

1. Write an equation relating the number of units (blocks, circles, toothpicks) to the number of steps.

**Making your Patterns Poster**

1. Get the other side of this paper checked by Mrs. Nguyen. If everything is correct, then you will be given the poster paper.
2. In portrait orientation, give your poster a nice title at the very top.
3. In the bottom right hand corner, write your name, period, and date.
4. Underneath the Title, re-sketch **or** neatly glue the first 3 steps of your function onto your poster.
5. In manners that are attractive (neat and colorful) and careful (accurate and thorough), transfer **all** information from the other side of this paper onto your poster.
6. This assignment is worth 20 points as outlined below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Title | Name, Period, Date | Sketch of first 3 Steps | Sketches of Steps 4 and 13 | T-Chart | Equation |
| Value | 1 | 1 | 4 | 6 | 2 | 6 |
| Your Score |  |  |  |  |  |  |
|  |  |  |  |  | TOTAL |  |