## Pattern Stations

Direction: Go to each station with a partner. After completing a station come see me to see if you did it correctly for a sticker. There are two stations with stars- these are the challenging stations! Please write which station you are at.

1. Station

| 2. Make a sketch or show step 5. | 3. Complete the table of values below. |  |
| :---: | :---: | :---: |
|  | Step Number | Number of Units |
|  | 5 |  |
|  | 6 |  |
|  | 7 |  |
|  | 8 |  |
|  | 9 |  |
| How many units make up this step? __ | 10 |  |
| How many units would step 25 be? | Describe any number p an equation if you can. | erns you notice. Make |

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## Station P

Don made a pattern using circles and squares. The first four steps of his pattern are shown below.


## Station A

Kate wrote the number pattern shown below.

$$
5,20,80,320, \ldots
$$

## Station T1

Sheila started the geometric pattern shown below.

$$
1,3,9,27,2
$$

## Station T2

Francine started the number pattern shown below using the rule "multiply the previous number by 2 and then add 3 to the result to get the next number."

$$
1,5,13,29 \ldots
$$

## Station E

## A comet passed by Earth in the year 1835. It passes by Earth every 60 years. (make 1835 step one)

## Station R

The first three stages are shown below:


A "staircase" that is 4 cubes high is shown below. Notice that 10 cubes are needed to build the staircase.


| Height of <br> Stair Case | 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| Number of <br> cubes <br> needed | 1 | 3 | 6 | 10 |

