

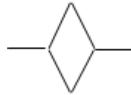
# Making more stick patterns

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This task is about using ice block sticks to make patterns and finding a rule for the pattern.

- a) Use your sticks to make shape 1 of the pattern below.  
Add the correct number of sticks to make shape 2 and then shape 3.
- b) Add the correct number of sticks to make **shape 6** of the pattern.  
Draw these shapes in the space below.

**shape 1**



**shape 2**



**shape 3**



**shape 6**

- c) Write the number of sticks you used for each shape on the table below.  
The first two have been done for you.

| Shape | Number of sticks |
|-------|------------------|
| 1     | 6                |
| 2     | 10               |
| 3     |                  |
| ...   | ...              |
| 7     |                  |
| 10    |                  |
| 15    |                  |

- d) Describe a rule that helps you work out the **number of ice block sticks** needed for any shape number?

For example, write a rule that would help work out how many sticks are needed to make Shape **100**.

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