Triangles, Triangles, Triangles…….

**You have been given a total of 6 equal length sticks. Using these and these alone – can you arrange all the sticks into a configuration such that you create (progressively):**

* **One equilateral triangle**
* **Two equilateral triangles**
* **Four equilateral triangles**
* **Six equilateral triangles**
* **Eight equilateral triangles**

**FAQ’s:**

* Yes, these are all possible
* *Yes, you must use all the sticks to succeed*
* No, you do not need to break them

An equilateral triangle is one where all three sides are the same length, they are *equal*.

* *Yes, if you don’t need a stick simply rest it on top of another*

**Extension:**

* Are Three and Five and Seven equilateral triangles even possible?