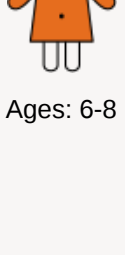


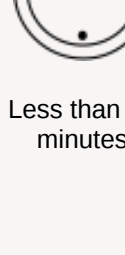
★ ★ ★ ★ ★

Kitchen Roll Flowers

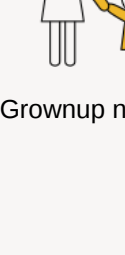
Stem Activities



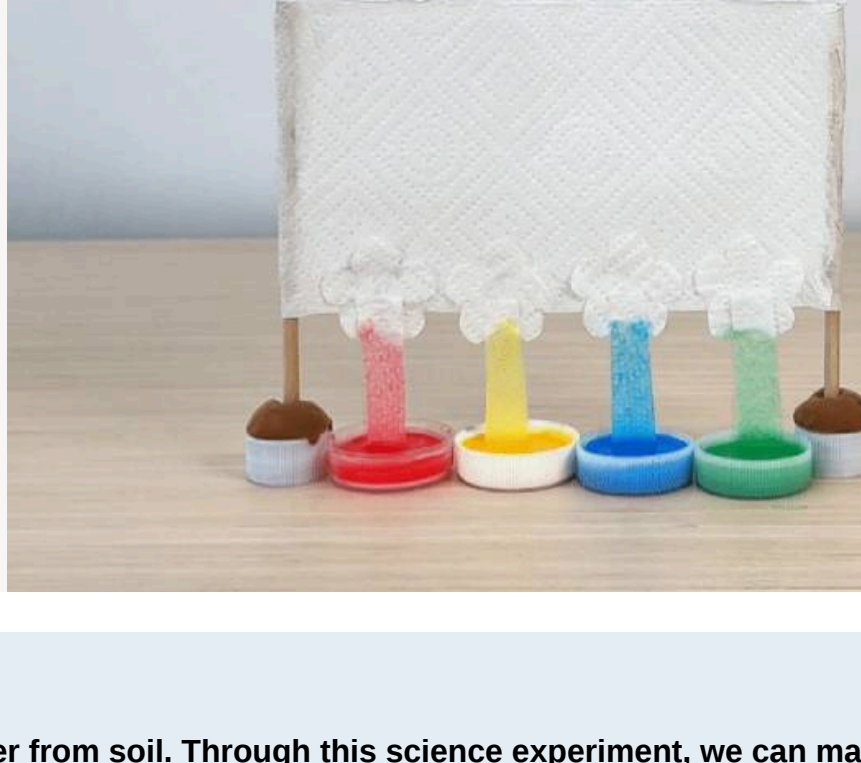
Ages: 6-8



Less than 30 minutes



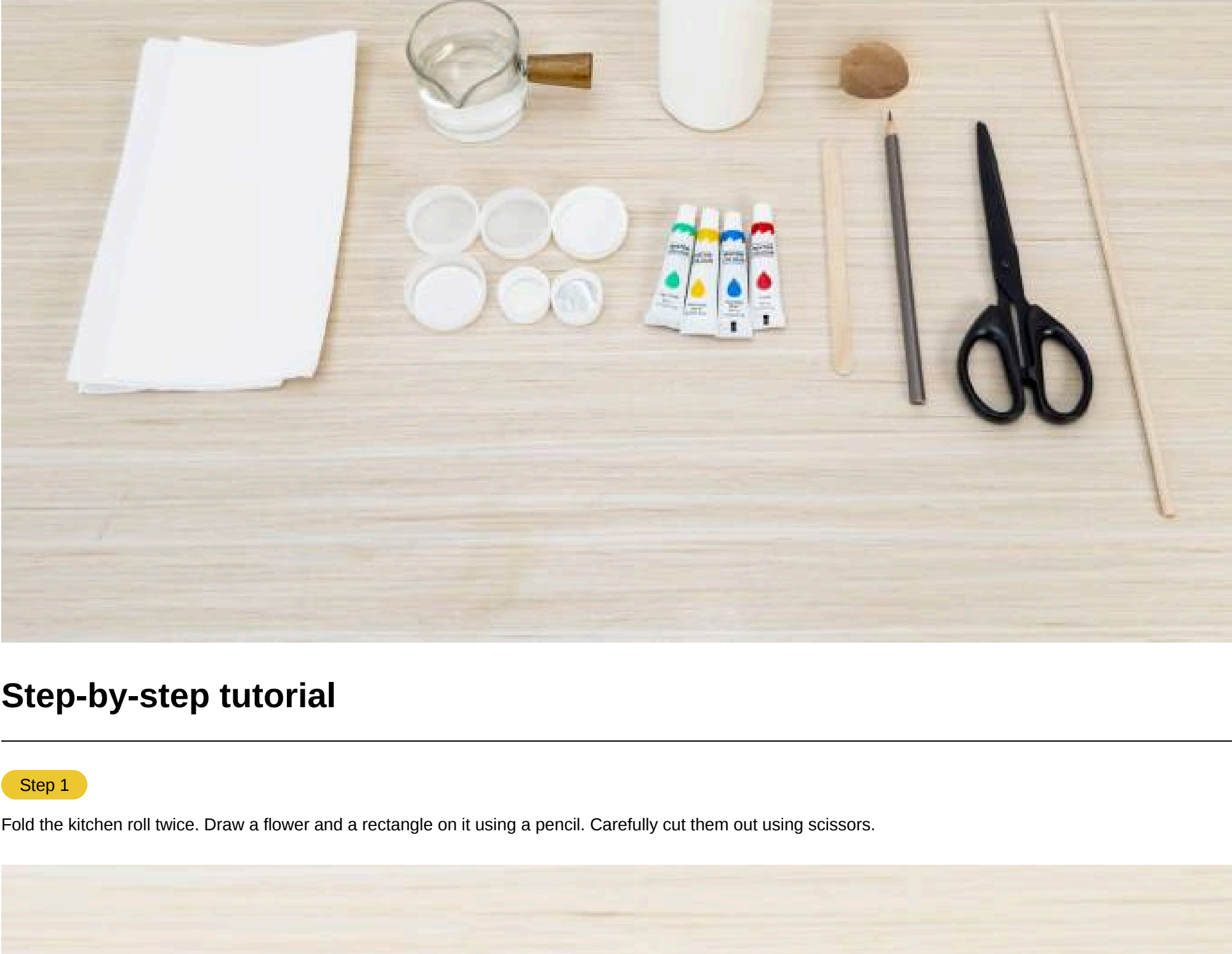
Grownup needed



Plants use capillary action to obtain nutrients and water from soil. Through this science experiment, we can make this process visible to children! Create flowers from kitchen roll and watch as coloured water climbs up the stem and petals, then learn how to change the flowers' colours.

Materials Needed

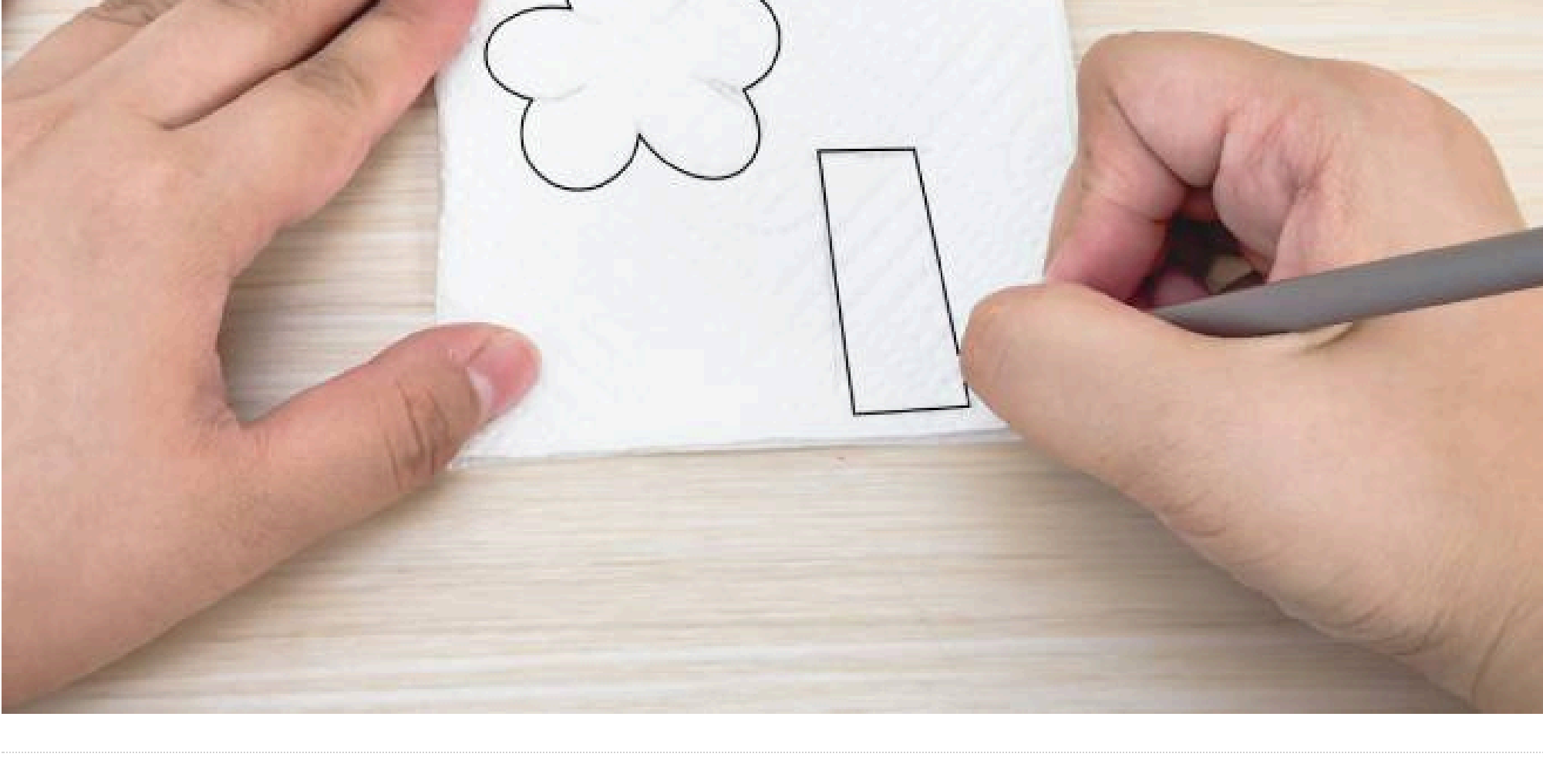
2 sheets of kitchen roll
Water
6 bottle caps
PVA glue
Paint
Mixing sticks
Pencil
Scissors
Wooden sticks
Plasticine



Step-by-step tutorial

Step 1

Fold the kitchen roll twice. Draw a flower and a rectangle on it using a pencil. Carefully cut them out using scissors.



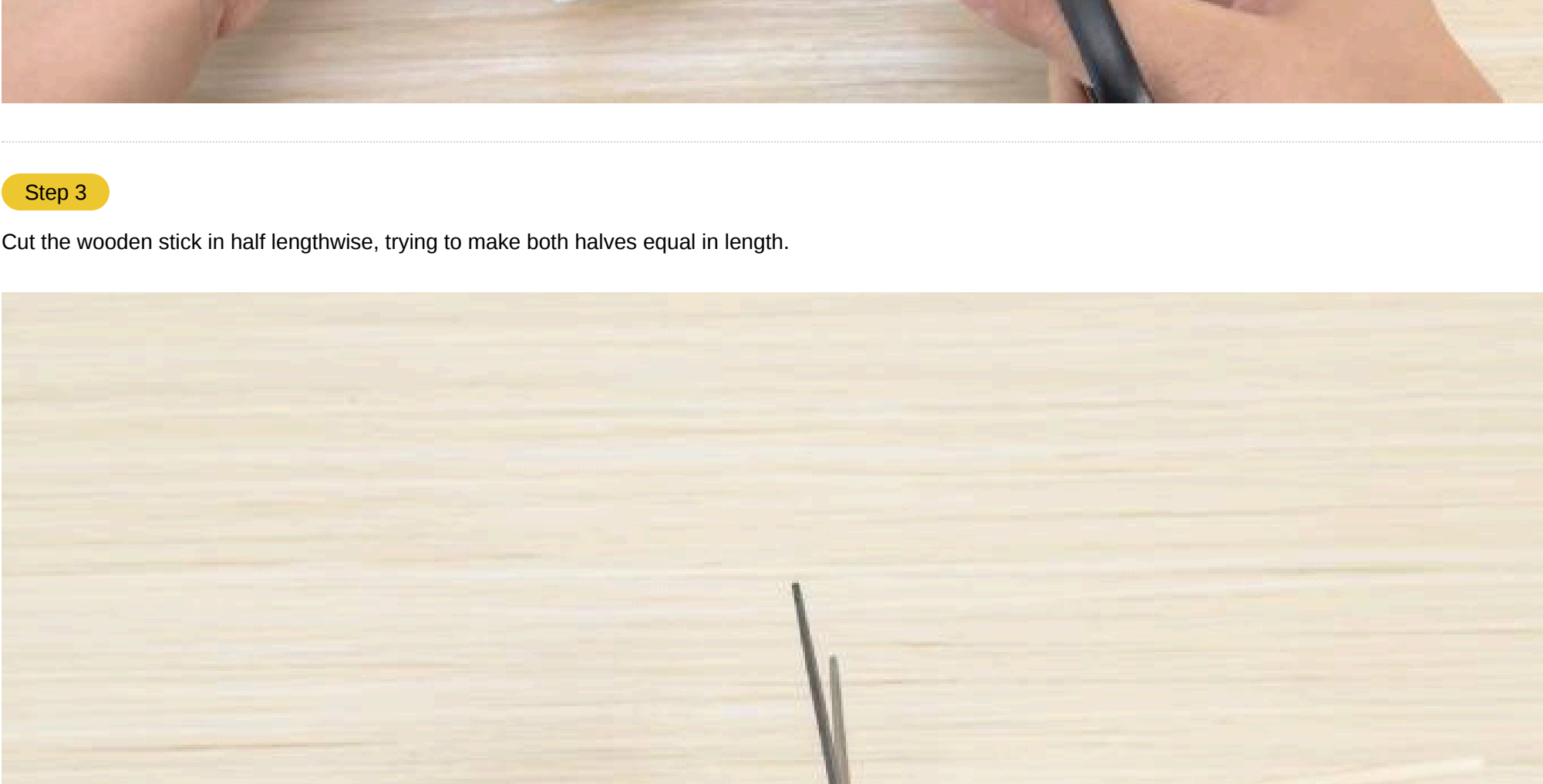
Step 2

Take another sheet of kitchen roll and cut it in half along the middle line.



Step 3

Cut the wooden stick in half lengthwise, trying to make both halves equal in length.



Step 4

Apply PVA glue along both wide edges of the rectangular kitchen roll piece.



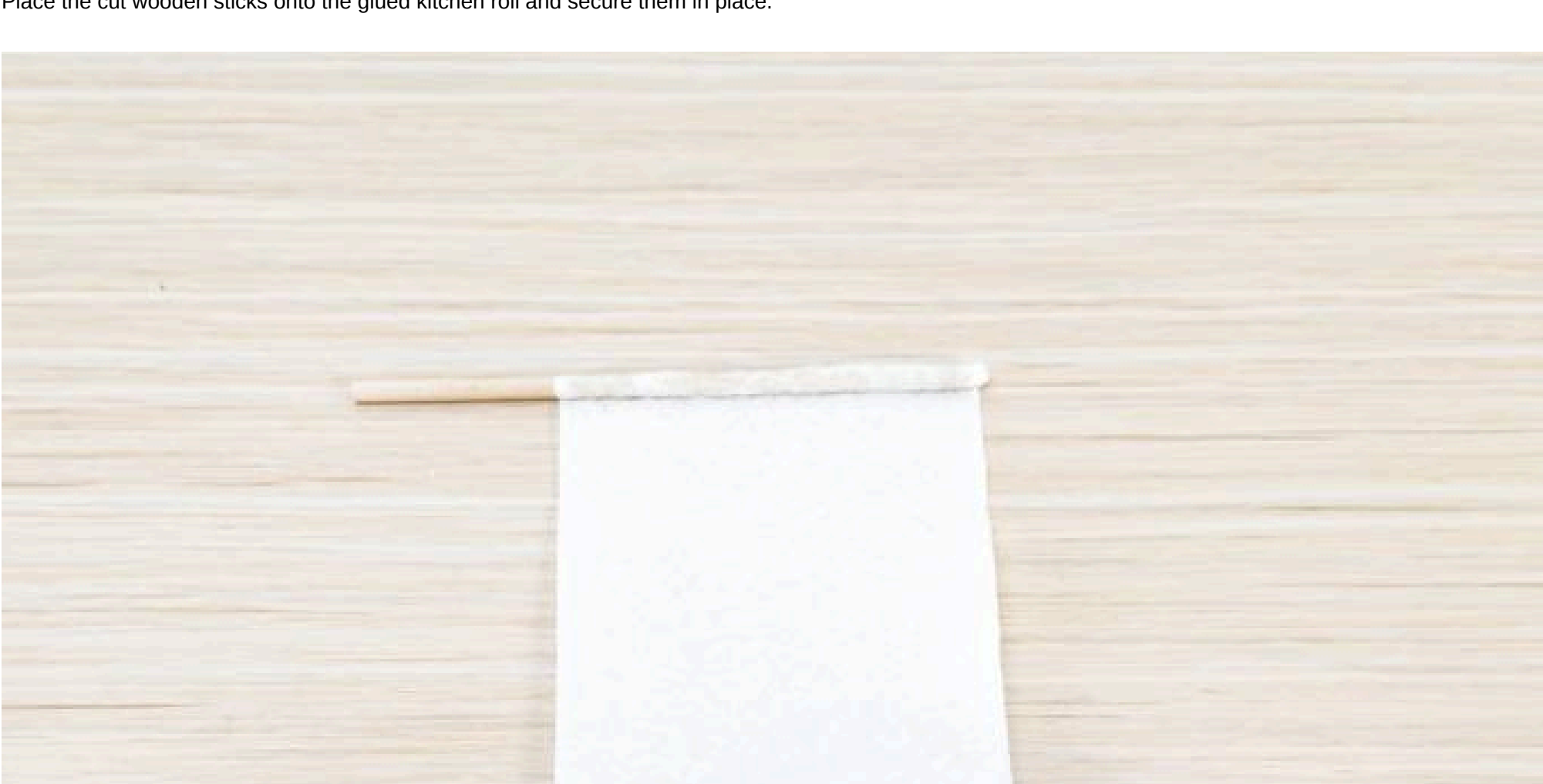
Step 5

Place the cut wooden sticks onto the glued kitchen roll and secure them in place.



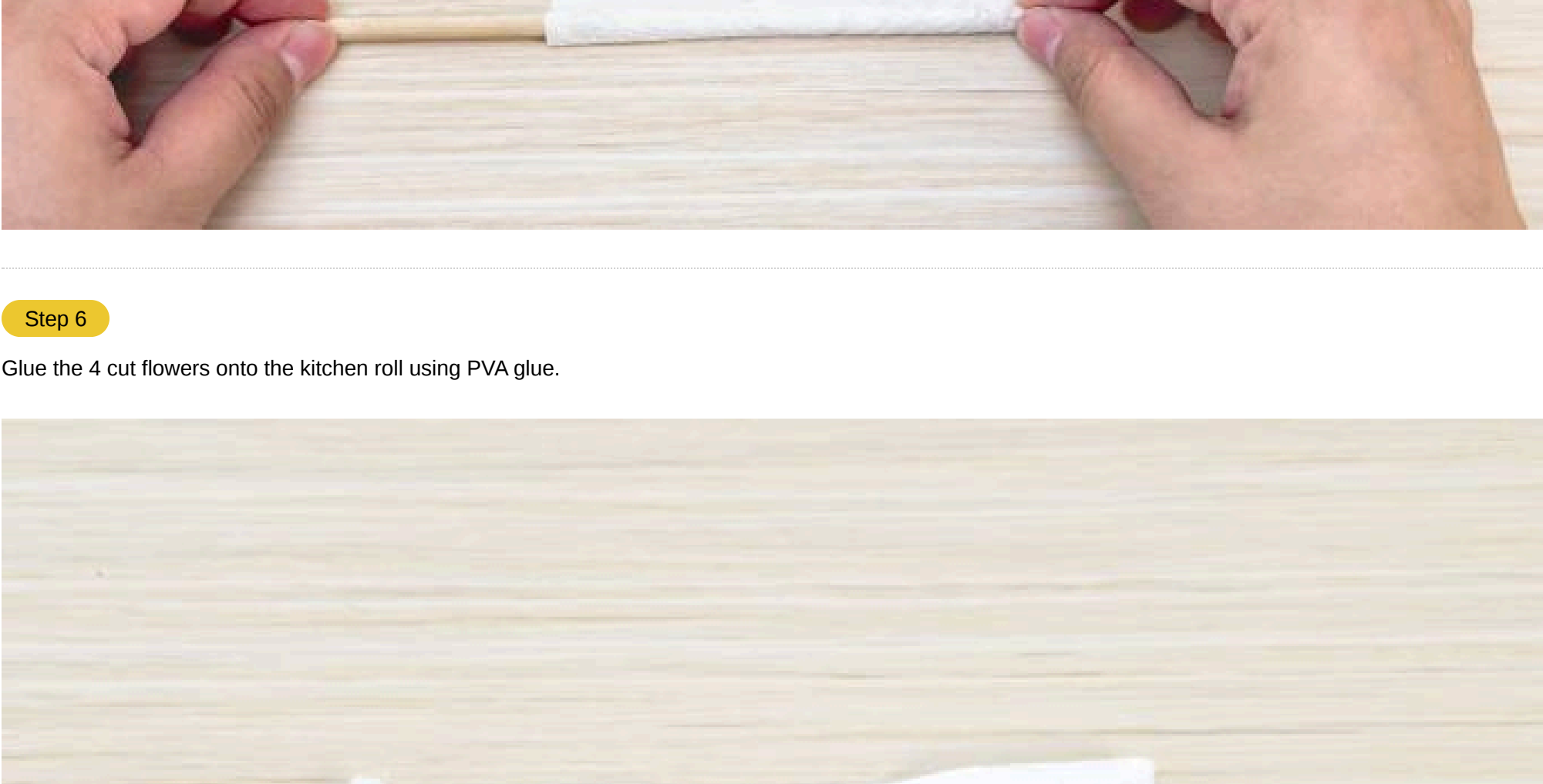
Step 6

Glue the 4 cut flowers onto the kitchen roll using PVA glue.



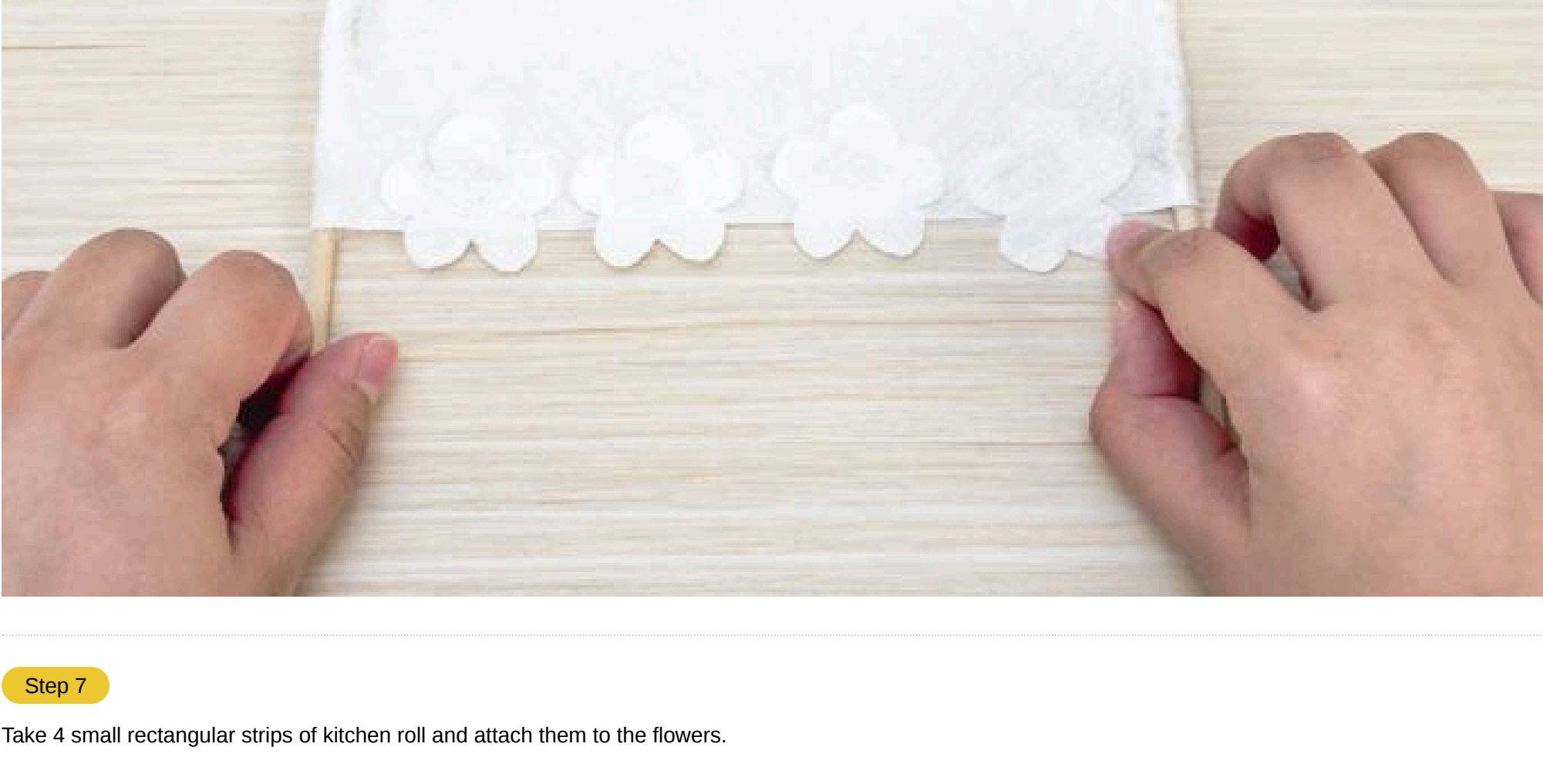
Step 7

Take 4 small rectangular strips of kitchen roll and attach them to the flowers.



Step 8

Pour water into four bottle caps.



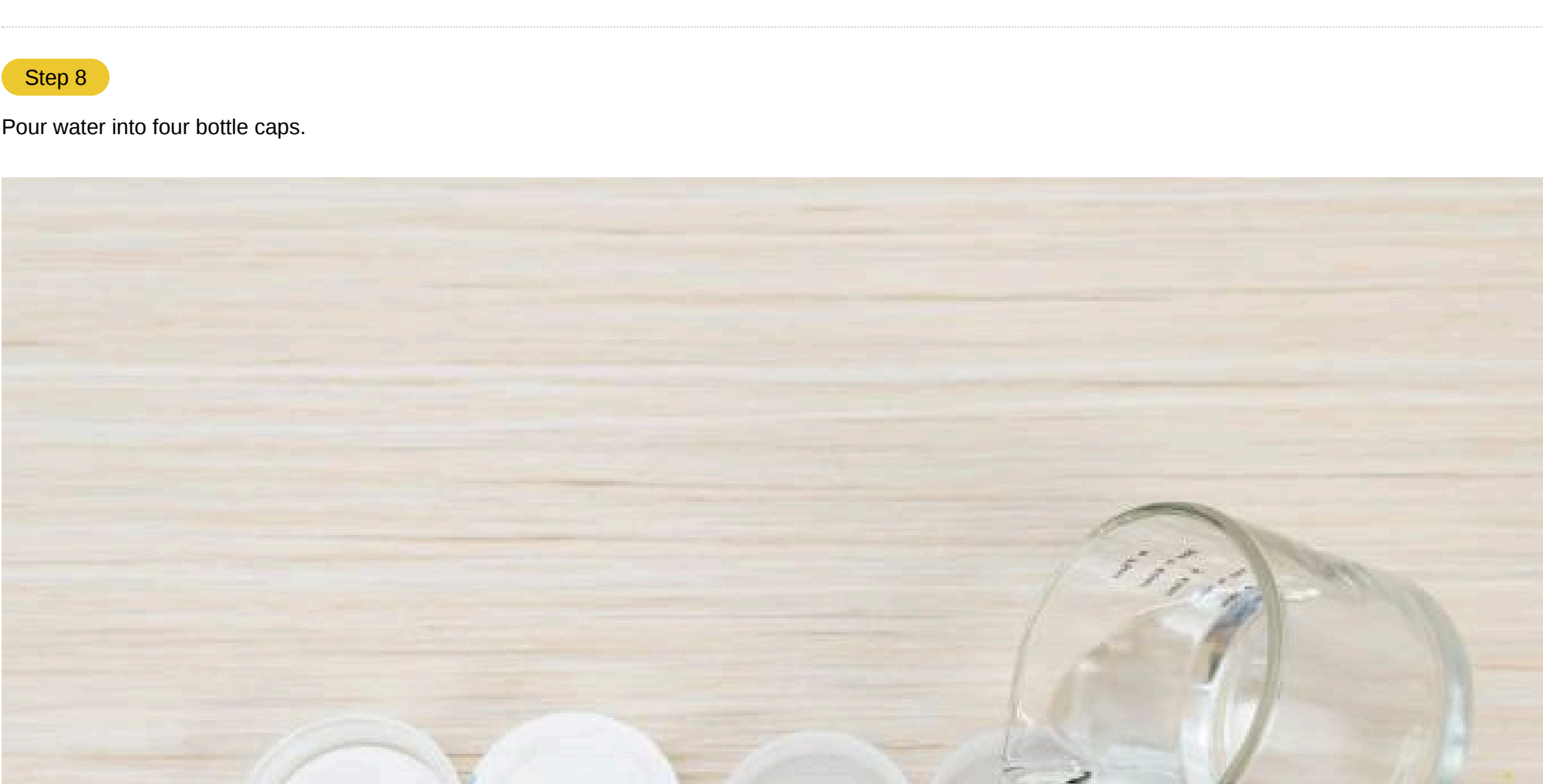
Step 9

Add paint and mix well with the mixing stick.



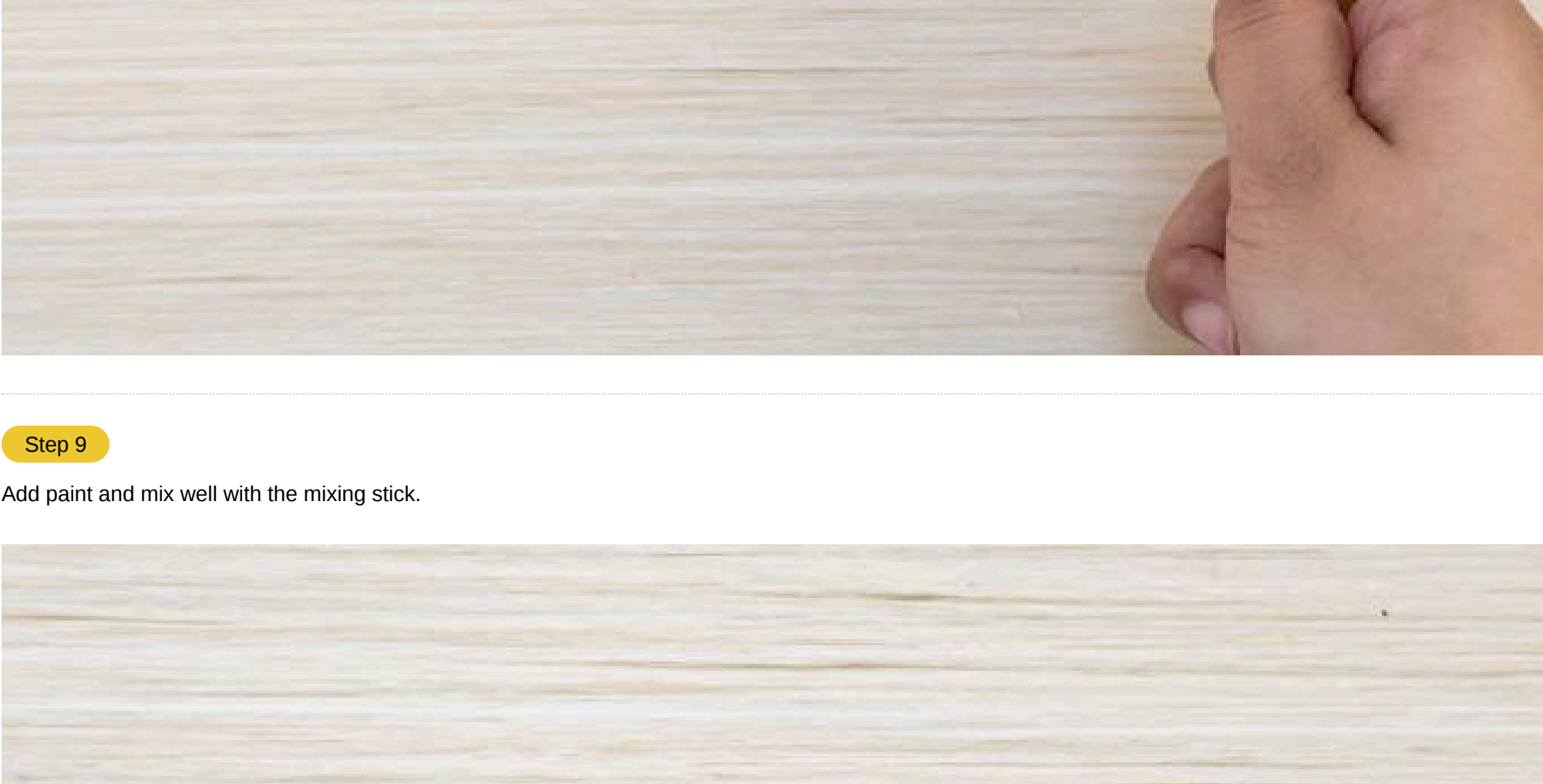
Step 10

Next, fill the remaining two bottle caps with plasticine.



Step 11

Insert the wooden sticks into the plasticine and smooth out the kitchen roll.



Step 12

Now, place the bottle caps under the paper strips and observe what happens to the kitchen roll.



The Science Behind It:

Kitchen roll contains many tiny fibre tubes through which liquid can climb. We call this phenomenon capillary action. This is why you can easily wipe up water from a table with kitchen roll - the water hides in these fibre tubes. It's the same principle that allows water to rise from tree roots to leaves through capillaries!

Try cleaning the bottle caps and using different colours to see what happens when capillary action occurs again!