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Snowman Wobbler


Stem Activities



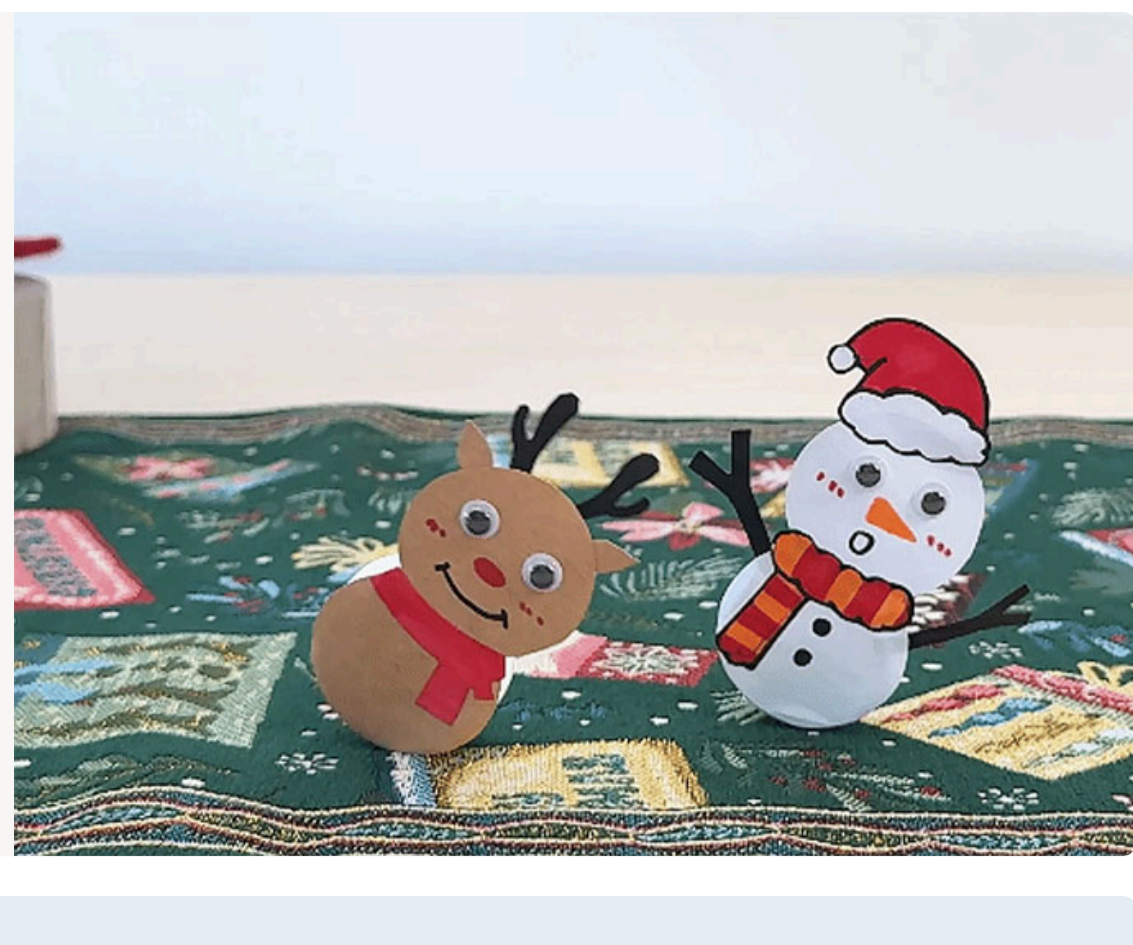
Ages: 6-8



30 minutes



Grownup needed



Create a cheerful Christmas snowman wobbler using recycled bottle caps in just a few simple steps. This delightful holiday craft also teaches children about the science of centre of gravity.

Materials Needed

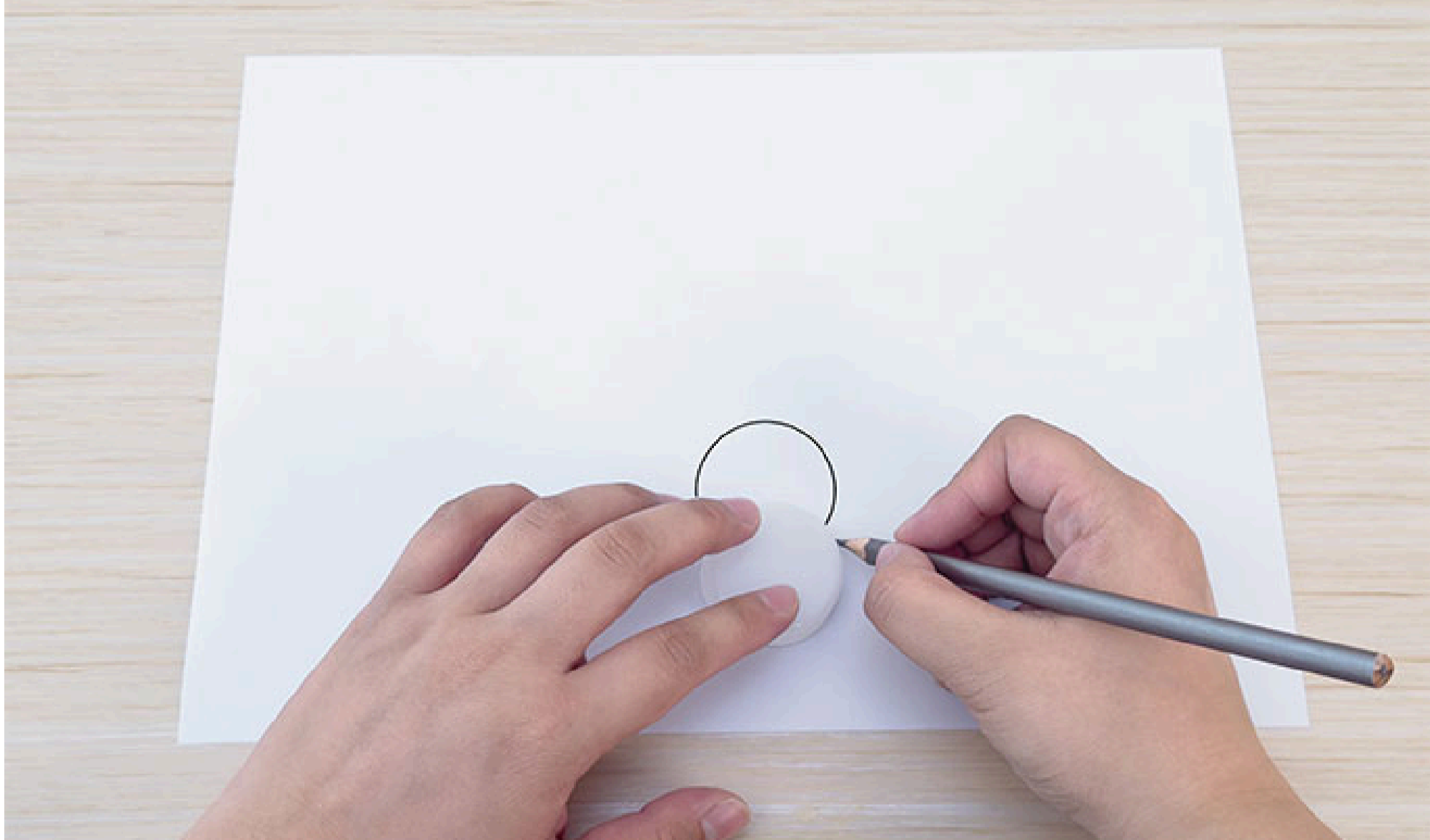
White card paper
Brown card paper
Black card paper
Plasticine
2 bottle caps
Marker pens
Googly eyes
Pencil
Double-sided tape
Scissors



Step-by-step tutorial

Step 1

Using the bottle cap as a template, draw its outline with a pencil, then draw another circle below it. Repeat this process on the brown card paper, drawing two circles.



Step 2

Cut out the circles along the outlines from both papers. These will be the bodies of your snowman and reindeer.



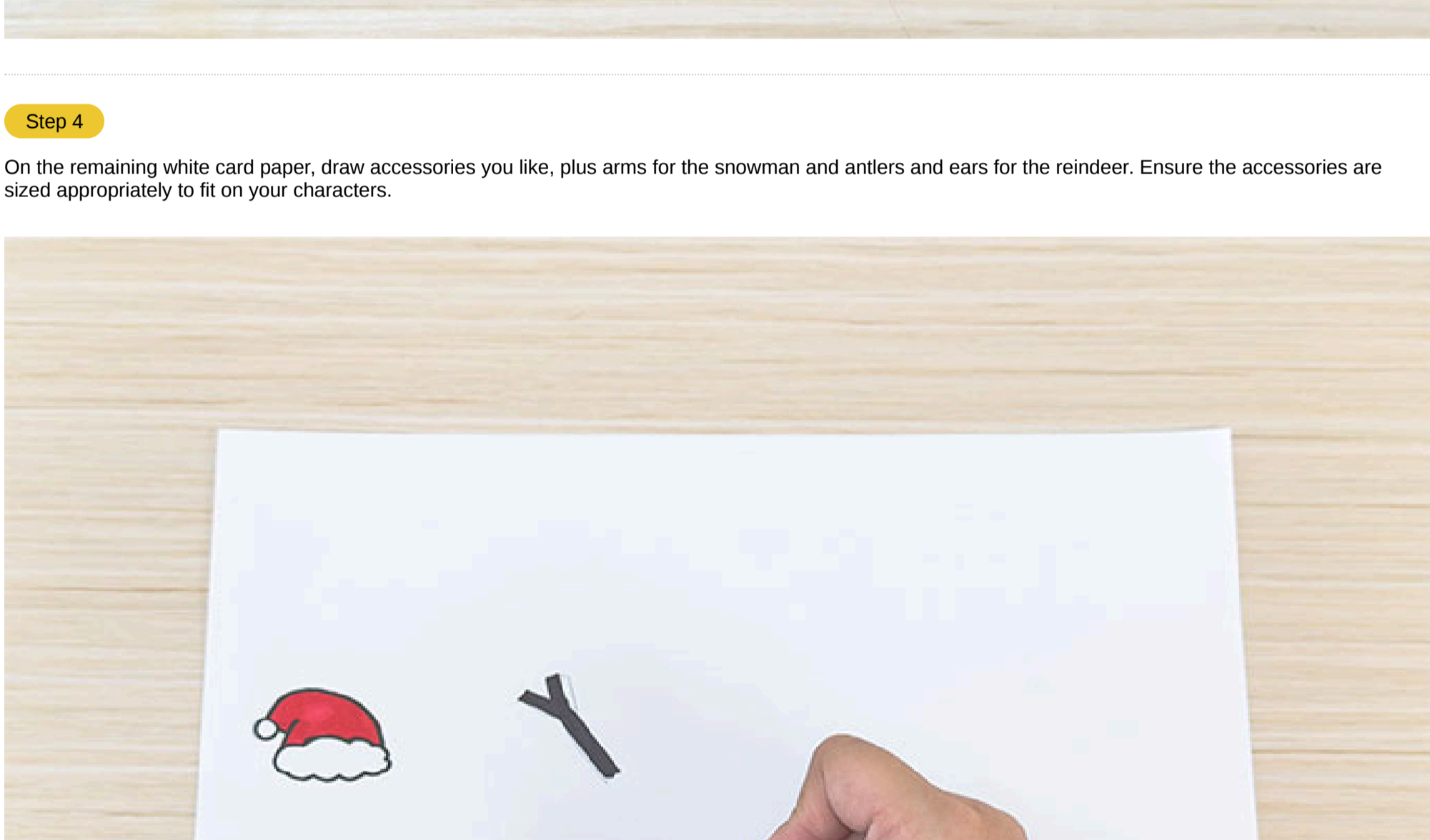
Step 3

Stick the googly eyes onto the snowman and reindeer cut-outs, and draw your favourite expressions using the marker pens.



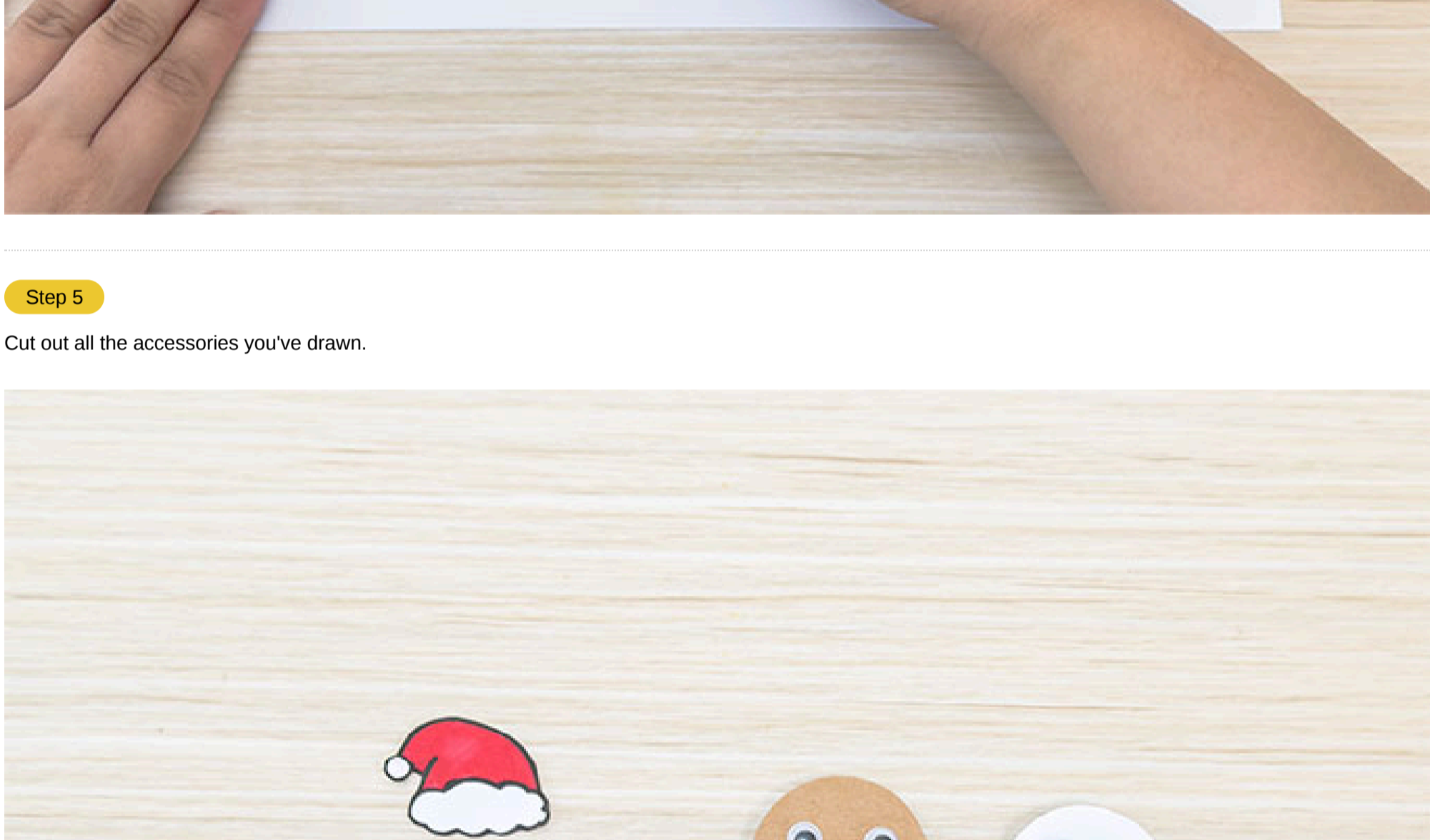
Step 4

On the remaining white card paper, draw accessories you like, plus arms for the snowman and antlers and ears for the reindeer. Ensure the accessories are sized appropriately to fit on your characters.



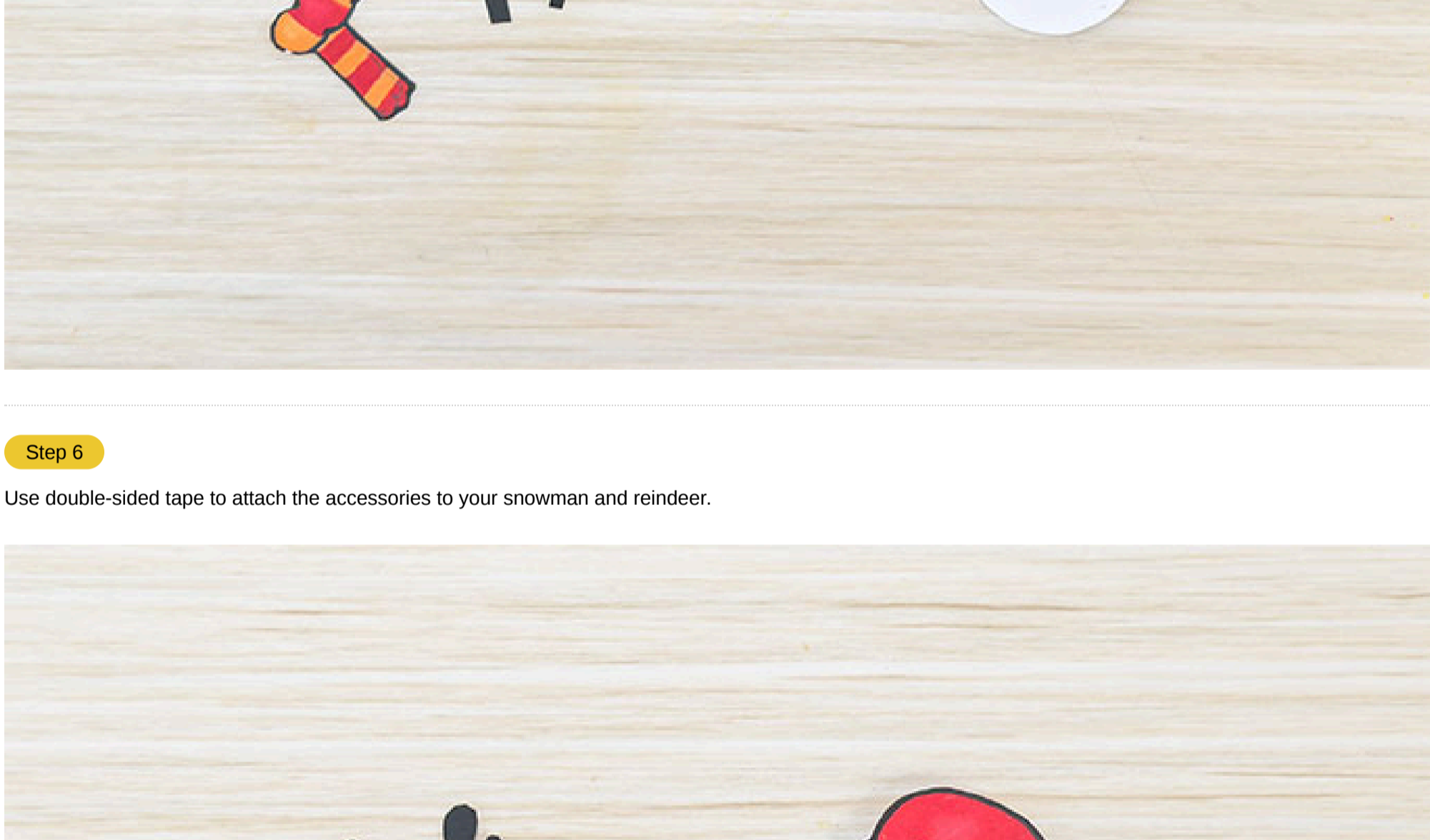
Step 5

Cut out all the accessories you've drawn.



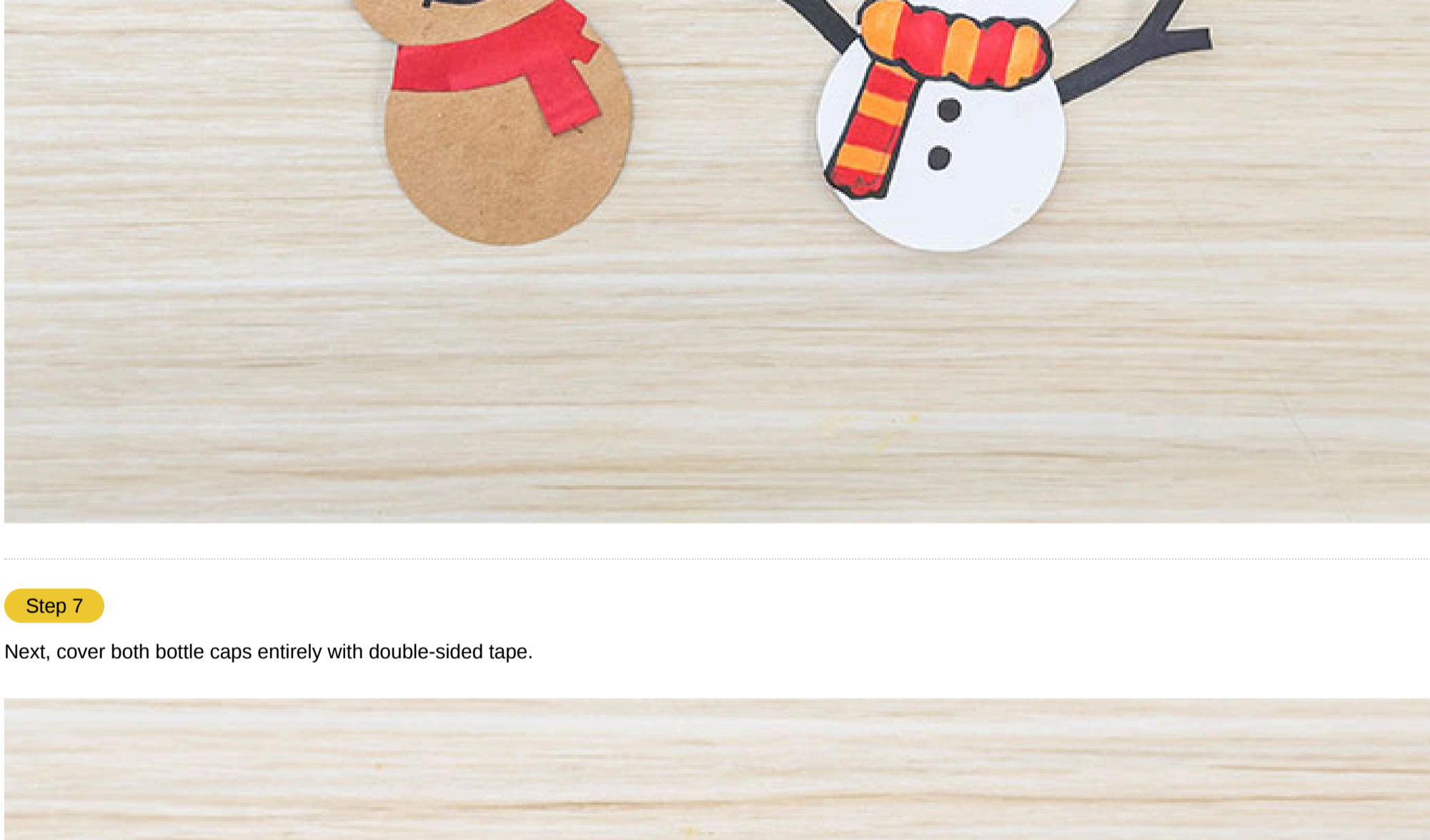
Step 6

Use double-sided tape to attach the accessories to your snowman and reindeer.



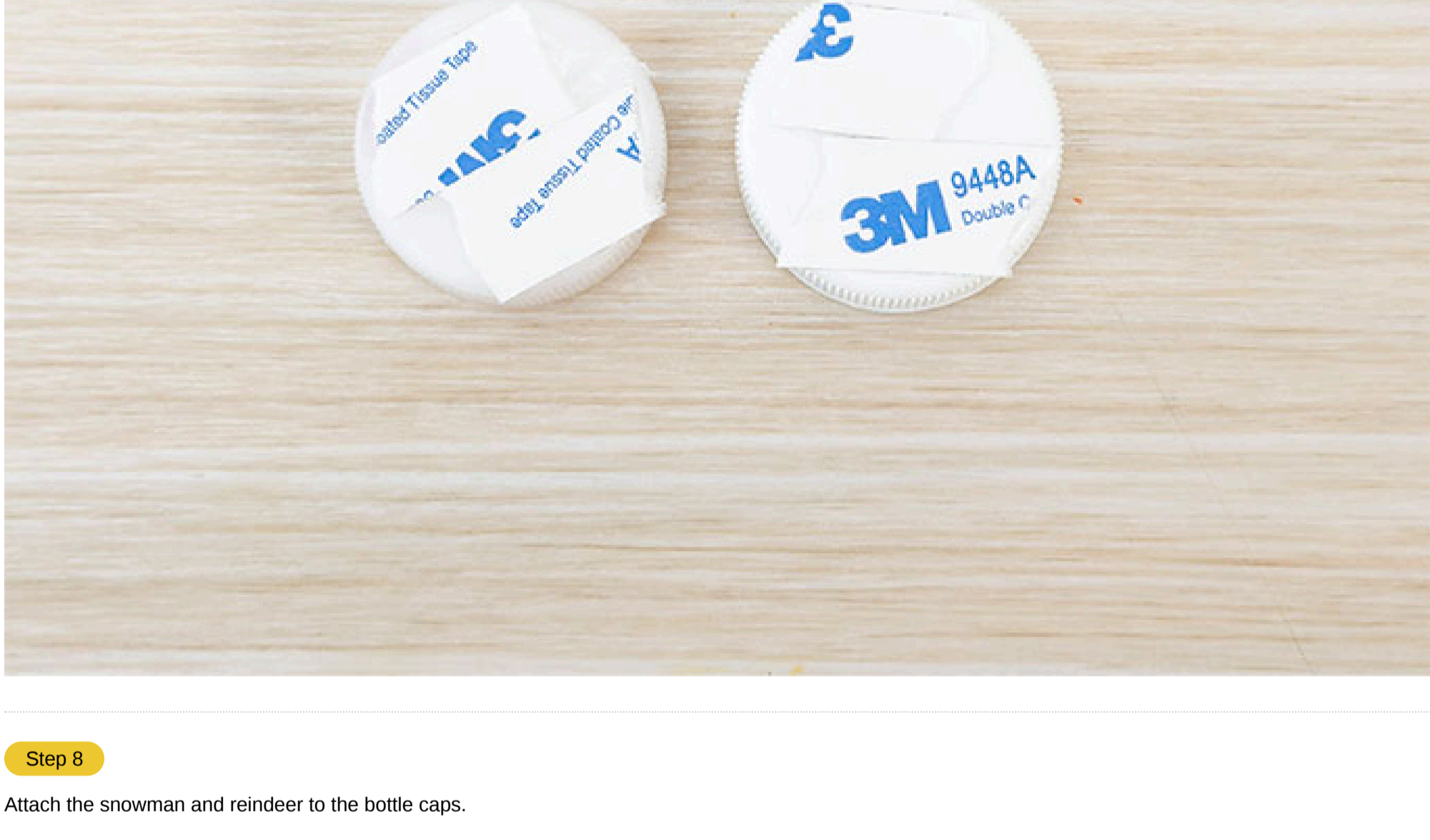
Step 7

Next, cover both bottle caps entirely with double-sided tape.



Step 8

Attach the snowman and reindeer to the bottle caps.



Step 9

Fill each bottle cap halfway with plasticine.



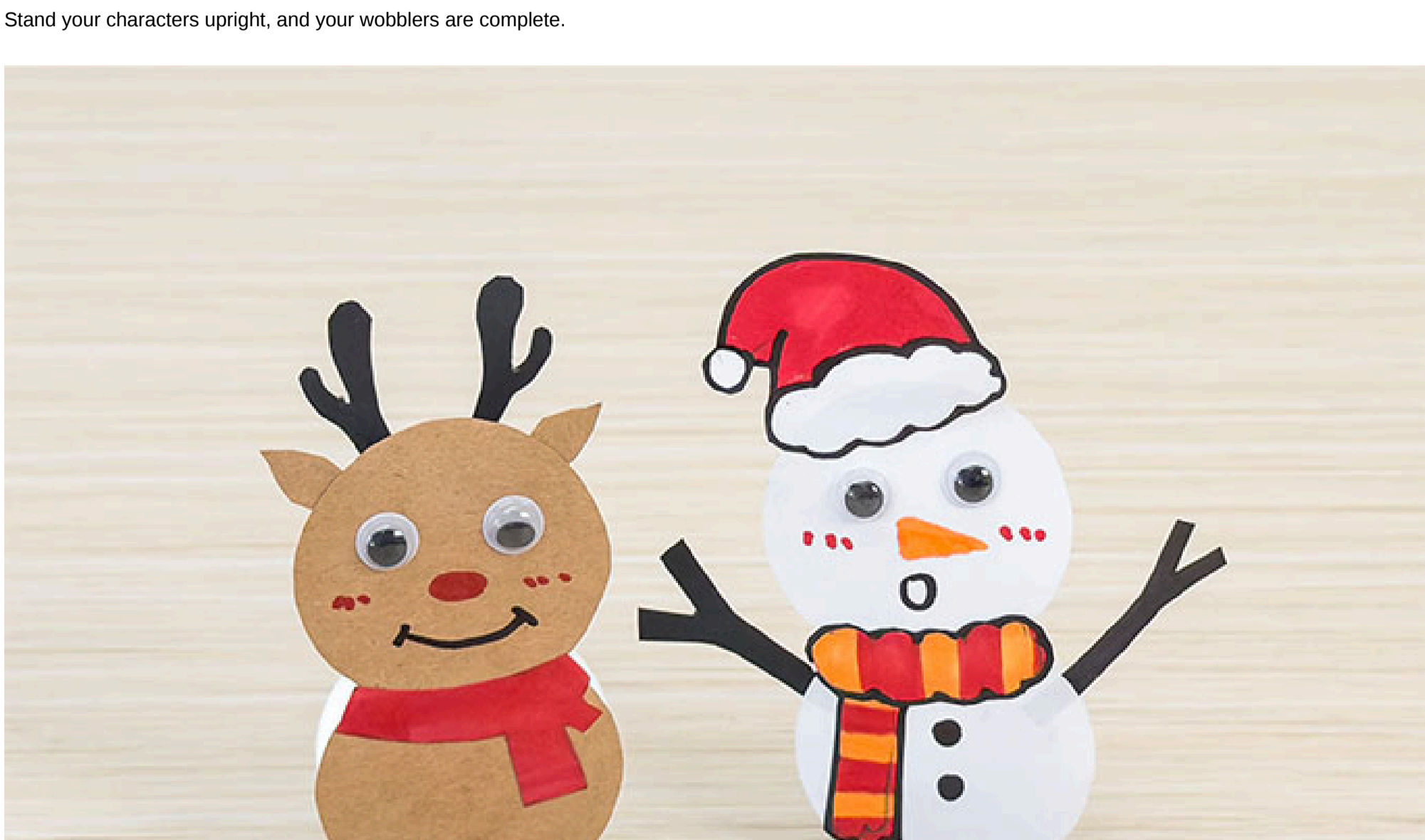
Step 10

Stand your characters upright, and your wobblers are complete.



Step 11

Now you can gently push your snowman wobbler and watch it play!



The Science Behind It:

The wobbler stays upright because of the heavy weight at its base, which creates a low centre of gravity. Additionally, the wobbler's base is large and rounded, making it easy to rock. When the wobbler tilts to one side, gravity pulls it back to centre, creating a rocking motion that continues until friction or air resistance eventually stops it.