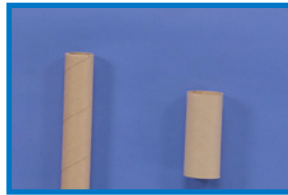


3D GLASSES

check list:

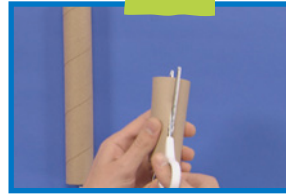
1. paper towel tube
2. toilet paper tube
3. scissors
4. red duct tape
5. 3 big fat straws
6. small towel
7. clear tape
8. boxboard
9. ruler
10. kitchen sponge
11. black marker
12. skinny straw
13. elastic
14. 2 magnifying glasses

1



To begin, find a paper towel tube and a toilet paper tube.

2



Use scissors to cut a line down the length of the toilet paper tube.

3



Slide the paper towel tube inside the toilet paper tube.

4



Hold the toilet paper tube around the paper towel tube, but not too snugly! You should be able to slide the toilet paper tube up and down. Wrap red duct tape around the toilet paper tube to hold the cut ends together.

5



Wrap the entire toilet paper tube with red duct tape.

6



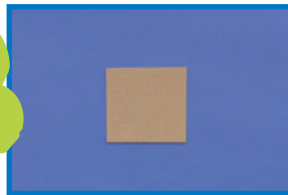
Cut the ends off a big fat straw. The ends should be cut the same size—about 2.5 cm long.

7



Place the toilet paper tube on a small towel so it doesn't roll around. Tape the cut-off straw pieces to one end of the toilet paper roll. The straws should be side by side and one finger's width apart.

8



Find a piece of boxboard and cut out a square about 7 cm x 7 cm.

9



Place a ruler down the centre of the square, then bend the right side of the square up against the ruler to make a tab.

10



Tape the tab onto the cut-out straws on the toilet paper tube, near the top end of the straws, like in the photo.

11



Place your finger on top of a regular kitchen sponge, at the edge. Use a black marker to mark the sponge at the top and bottom of your finger.

12



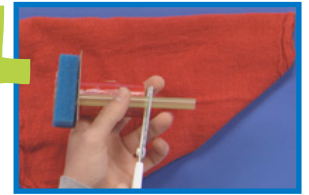
Cut straight along the two marks so you have a small rectangular piece of sponge.

13



Tape the small piece of sponge to the boxboard tab. This helps to make the tab strong.

14



Cut a second big fat straw in half. Tape one piece of the straw to the top of the toilet paper tube. Cut off the extra bit of straw that hangs over the edge of the tube.

continued on next page

3D GLASSES

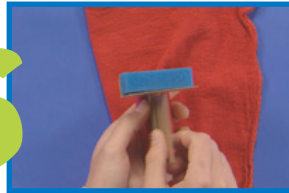
continued from previous page

15



Cut a line going straight down the centre of the straw.

16



Cut a piece of boxboard the same length as the straw, as well as the same height of the boxboard already taped to the tube. Slide the boxboard into the cut you made in the straw. Tape the boxboard into place.

17



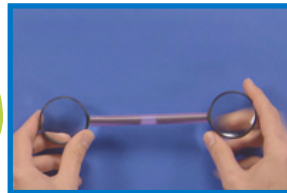
To secure the boxboard even more, cut a skinny straw in half. Stick one half of the straw into the big fat straw, then stick the other skinny piece in, too. If the ends of the skinny straws hang out of the big straw, cut them off.



18

To make the lenses for the 3D glasses, you need another big fat straw and two magnifying glasses. Bend the straw in half, then cut it in half.

19

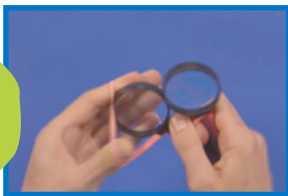


Take one half of the straw and stick one magnifying glass into it, then stick the other magnifying glass into the other end of the straw.



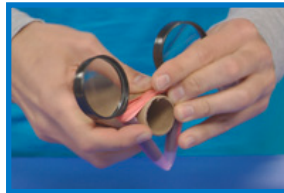
Tip: To keep the magnifying glasses in place, stick small pieces of skinny straw into both ends of the big fat straw.

20



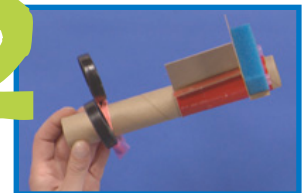
Bend the big fat straw so the magnifying glasses are side by side. Wrap an elastic twice underneath the glasses.

21



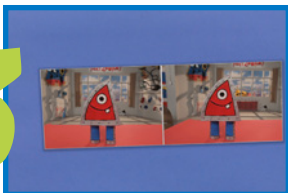
Remember the paper towel tube? Insert one end of the tube into the triangle made by the big fat straw and the elastic.

22



Slip the toilet paper tube onto the paper towel tube. The sponge side should be at the end of the paper towel tube.

23



You're done making your 3D glasses! To see how they work, you need to take two almost identical photos.

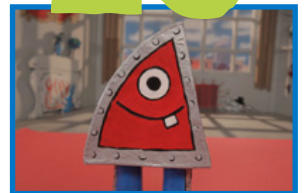
Tip: The printout of the two photos should be the same measurements as the piece of boxboard attached to the sponge.

24



Slide the photo between the two pieces of boxboard on the 3D glasses. The photo side should face the magnifying glasses.

25



Put your eyes up to the magnifying glasses and look through. Your photo's in 3D!

These 3D glasses are awesome! Now that's Artzooka!

Upload pictures of what YOU make at cbc.ca/kids/games/artzooka