

## Kaleidoscope

### check list:

1. a shiny lid from a rectangular take-out container
2. pen
3. ruler
4. scissors
5. large elastic
6. clear see-through tape
7. small clear plastic lid
8. black marker
9. clear tape (but not completely see-through)
10. empty cereal box
11. hole punch
12. little pieces of cut-up plastic bottles (different colours)



Place the take-out lid on a table, shiny side down. Use a pen to make a mark on the lid, about the width of two of your fingers from the side.



Draw a straight line on the lid with a pen and ruler.



Draw two longer lines on the lid, but in the other direction of the first line. The goal here is to make three long equal parts on the lid.



Fold along the two long lines.



Cut along the first line you drew (the short line). Set aside this small piece.



Fold the large piece of lid to make a long triangle (shiny side in). Wrap an elastic around the triangle to hold it in place, then stick a piece of clear tape on each end. Remove the elastic.



Tape the ends of the small piece of lid together (that you had set aside) to form a short triangle (shiny side in).



To make a lens for the kaleidoscope, place the short triangle on a small clear plastic lid. Use a black marker to trace around the triangle. Cut out the triangle with scissors.



To attach the plastic triangle to the short triangle, use three strips of clear tape (not completely see-through, though).



Use clear see-through tape to cover one end of the long triangle.



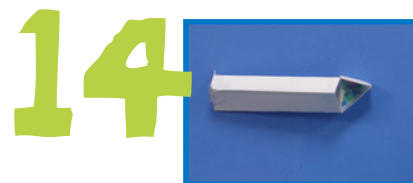
To make an eyepiece for the long triangle, use a piece of cereal box. Put the non-taped end of the triangle on the cereal box and trace around it with a pen. Cut out the eyepiece triangle.



Use a hole punch to make a hole in the eyepiece. You will need to punch a couple of holes really close together so the hole is big enough to see through. Tape the eyepiece onto the non-taped end of the large triangle.



Use a piece of tape to attach the short triangle to the taped end of the large triangle (not the eyepiece end). You only need one piece of tape because you want the short triangle to open like a door.



Add little pieces of cut-up plastic bottles to the short triangle, then close the short triangle door and tape it shut. Be sure to tape all the way around – you don't want pieces of plastic falling out!

**Tip:** Artzooka the outside of the kaleidoscope using markers, paint, stickers, or wrapping paper – it's up to you!



Look through the kaleidoscope's eyepiece. What do you see? Pretty amazing, right?

**Try adding more pieces of bottle—and different colours—to the kaleidoscope. What designs do you see now?!**

Upload pictures of what YOU make at [cbc.ca/kids/games/artzooka](http://cbc.ca/kids/games/artzooka)