

# How to Make a Kaleidoscope

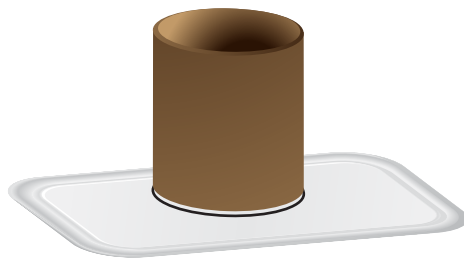
Use up simple and discarded supplies from your craft box and the kitchen to make a colorful kaleidoscope!

## **Supplies**

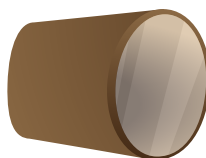
- Paper towel roll
- Ruler
- Multicolored translucent beads
- Tape
- Glue
- Hot glue gun
- Clear plastic fruit box
- Marker
- Scissors
- Aluminum foil
- Empty cereal box
- Colored scrapbook paper

## **Directions**

1. Place the paper towel roll on clear plastic and trace around its end with a marker.



2. Cut out the plastic along the outline of the paper towel roll.
3. Ask for an adult's assistance to line the rim of the paper towel roll with hot glue and carefully slide in the plastic cutout and stick it firmly to the rim.



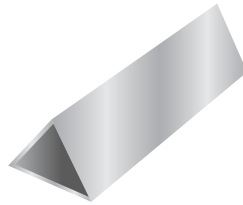
4. Start dropping the translucent beads on the plastic sheet, into the paper towel roll.



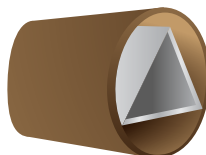
5. Follow step 1 and cut out another plastic round.
6. Drop the circle inside the tube on top of the beads. Slide a ruler through the paper towel roll and push it to lay flat if necessary.
7. Now, use the same ruler to measure the distance from the second circle to the top of the paper towel roll.
8. Cut out a total of 3 1-inch wide strips, as long as the distance that you measure, from the cereal box. Wrap the strips with aluminum foil with the reflective side facing outward. Tape the foil to the cutouts.



9. Now, tape the edges of the strips to make a triangular cylinder.



10. Slide the triangle through the paper towel roll and fix it on top of the second plastic round. You can use clear tape to fix it if it doesn't fit snugly.



11. Wrap the paper towel roll on the outside with scrapbook paper.
12. Point your kaleidoscope toward a window (any source of light) and spin it lightly to see the different shapes and patterns forming from the beads!