



How to Make a Kaleidoscope

Materials for Homemade Kaleidoscope

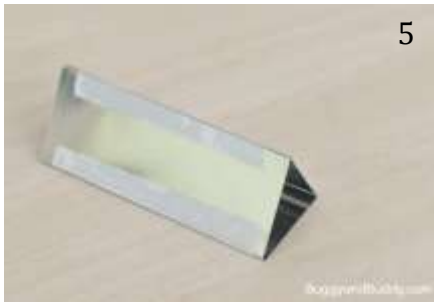
- Empty toilet/kitchen paper roll
- **Silver foil/card** (you can wrap the foil around a piece of card)
- Scissors and/or paper cutter
- Tape
- **White card for drawing the spinner**
- **Bendy straw**
- Markers, stickers, or other materials for decorating your spinning circle
- Optional: **Paint** for decorating your cardboard tube

Instructions:

1. If you are planning on painting your cardboard tube, do that first. We. Set it aside to dry.
2. Next, you'll need to cut your **silver foiled card** into three equal strips. You'll want the size to be just right so the finished kaleidoscope insert fits snugly in your cardboard tube and won't fall out.
3. Line up your silver cards, leave a tiny space between each one. (Place the shiniest/least scratched sides face down.) Tape them together over the spaces.



4. Fold the taped silver card into a triangular prism and tape along the top to hold in place.



5. This should fit snugly inside your cardboard tube.



6. Cut off the bendy end of a **flexible straw**. See below for what it looks like.



7. Tape it along the top of your tube with the flexible part of the straw hanging over the edge.



8. Cut out 3 circles from **cards** measured 3.75 inches in diameter. Use the template with this homework.



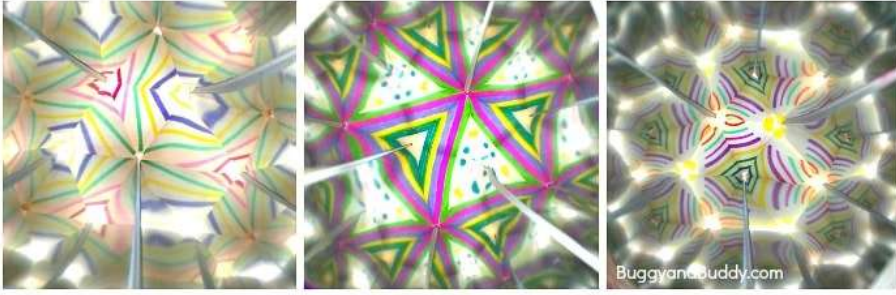
9. Poke a hole in the centre of your circle using a sharp pencil.



10. Decorate the circle using markers, stickers, crayons etc. Try out different designs, shapes, and letters!



11. Place the circle onto your straw with the design facing the kaleidoscope. You want the hole to fit over the flexible portion of the straw so it will turn easily.



12. Look into your kaleidoscope and explore all the reflections created by your design!



Flexible straws