**Let’s Investigate** 

**Create a Kaleidoscope**

**Materials:**

● Toilet paper rolls

● Mylar or mirrored sheets (9.7cm x 3.5cm per scope)

● Tape

● White cardstock or Circle Printout

● Bendy straw

● Markers

**Directions:**

1. Measure and cut your mylar or mirrored sheet to be 9.7cm x 3.5cm

2. Line up your mylar strips, leave a tiny space between each one. (Place the shiniest/least scratched sides face down.) Tape them together over the spaces. See image below.



3. Fold the taped mylar into a triangular prism and tape along the top to hold in place. See image below.



4. Stuff the mylar prism inside your cardboard tube. See image below.

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5. Cut off the bendy end of a flexible straw.

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

7. Cut out 3 circles with a diameter of 3.75 inches.

8. Poke a hole in the center of your circle.

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

10. 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. See image below.



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

**STEM Career Connection: A Light Technician or Electrician** are people who wire and set up the lights and effects for televisions, movies, houses, and more. Why do you think these roles are important to have? What are examples of things that you use or do that require light?

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