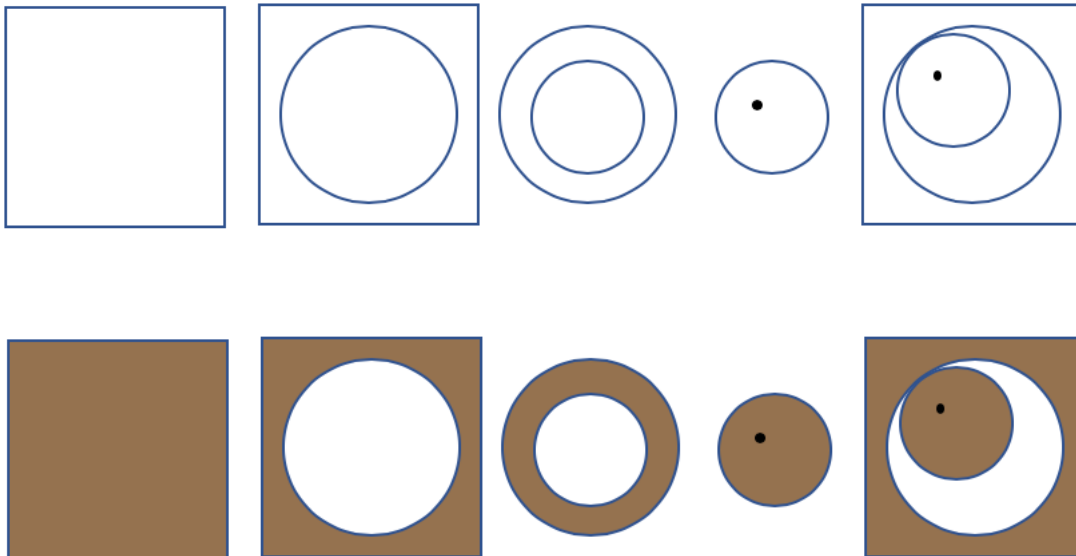


How to Make a Cardboard Spirograph

1. Cut a circle out of corrugated cardboard. (Use a protractor or a circular object to trace the circle.) This original piece of cardboard with the larger circle cut out will be the frame of the spirograph.
2. Cut another smaller circle out of the first circle.
3. Punch or poke a small hole in the smaller circle cutout. (Size the hole to hold a pen, pencil, crayon, or marker tip.)
4. Place the smaller circle cutout in the opening left from the original circle cut from the cardboard (the frame).
5. Roll the inner circle around the opening of the circle of the larger frame by inserting a writing utensil in the smallest hole and guiding the circle around the edges of the open circle.



Bonus Step: Make teeth/gears for your spirograph

1. Cut a strip of corrugated cardboard big enough to line the inside of your frame circle.
2. Separate the layers of cardboard to expose the ridges.
3. Glue one side of the ridged cardboard to the inside of the frame circle.
4. Glue the opposite side of the ridged cardboard to the outside of the smallest circle cutout.
5. Run the smaller circle cutout around the inside of the frame circle by engaging the cardboard "gears."