Calliopes (pronounced KALL – EE – ohp) were played using high-pressure steam released by pressing a piano-style keyboard, but we can make our own whistles using the most common of materials—paper!

**Artist:** Charlie Luckey (American), **Makers:** Leonard Aylesworth (American) and Thomas J. Nichol, Two Jesters calliope wagon, 1920-1921. Wood, iron, brass, copper, and rubber, 120 x 207 x 95 in. Gift of Ringling Bros. and Barnum & Bailey Circus. SN1486

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**PAPER WHISTLES**

**MATERIALS:**
- COPY PAPER
- SCISSORS
- X-ACTO KNIFE
- GLUE STICK

**DIRECTIONS**

1. Fold a piece of copy paper in half hamburger-style. Cut on the fold. On one piece of the cut paper, cover the entire paper with glue stick leaving a lip on the short end of the paper clean.

2. Take a pencil and role the paper completely around to form a tube, starting on the glue-free edge so the pencil does not become glued to the paper. Remove the paper and leave to dry. Once the glue has dried, the paper should be a solid pipe.

3. Take the second half of the paper and cut in half hotdog-style. Cut about two inches off the end of each strip. Cover the entire side of one of the paper strips with glue stick. Roll tightly so there is no hole in the center. Use the second strip as needed to continue rolling until the diameter of this tube can fit entirely inside the larger tube of paper from step 2.

*Continued on the next page!*
4. Use scissors to cut about 1.5" off the top of the larger tube of paper. Take a small square of paper (from the cutoffs from step 3) and cover with glue stick. Seal one end of the larger pipe. Smooth the seal by gluing a second strip of paper over the rough edge.

5. Ask an adult to help you with this next step. Use an X-Acto knife to cut a triangular hole in the larger pipe. The flat end should be close and perpendicular to the open end of the pipe, with the triangle pointing down to the sealed end. On the smaller tube, take the X-Acto knife and about halfway down the pipe use the knife to create a flat edge. Smooth the rough edges out by gluing and rolling a strip of paper over the flat edge.

6. Insert the small tube into the mouth of the opening of the large pipe. The tube should enter the pipe (with the flat edge towards the hole) about ½". Cut the excess tube. Use a small wooden stick (or several folds of paper) to prop the tube. As an adult to help you seal with superglue. Remove the stick and let dry before use.

Need a visual? Check out this video: https://www.youtube.com/watch?v=nK7RR4ca0Y8