

## Procedural Guidelines for Creating Woodwind Instruments

---

**Read all directions before beginning this project.**

### **Materials Needed:**

1. 6 Plastic drinking straws per student
2. Cardboard or stiff paper
3. Scissors
4. Glue
5. Art Supplies (markers, colored pencils, crayons)

### **Step 1: Planning phase**

1. The back of your air pipe should reflect something about the woodwind listening example your teacher will play for you. Design a windpipe that reflects the emotions or images the listening example creates in your imagination.
2. On a piece of paper, draw a picture of your future instrument or write a short paragraph describing what your instrument will look like.
3. Be prepared to explain your choices to your classmates.
4. List the art supplies you will need to decorate your air pipe.

### **Step 2: Decorating your air pipe**

1. The sides of your air pipe will be cut from cardboard or stiff paper. Using a ruler, cut two pieces that are 6" long and 1½ " wide.
2. Using the arts supplies listed above, decorate the two outer sides of your air pipe. If you make changes from the original design, note the changes on the original design and circle the changes on your original drawing.

### **Step 3: Setting up your instrument**

1. Using a ruler, measure and cut your six straws to the lengths listed on the Scientific Process Guidelines.
2. Line your straws up in order from shortest to longest.
3. Spread glue along the inside of one cardboard strip.
4. Glue the straws to the cardboard strip at equal distances, with the tops of the straws in line. The top end of each straw should just barely appear beyond the end of the cardboard piece.

5. Allow the glue to dry before proceeding to the next step.
6. Apply glue to the inside of the other cardboard strip.
7. Glue this strip to the other side of the straws.
8. Allow time for the glue to dry.

#### **Step 4: Playing your instrument**

1. Hold the air pipe so that the even end of the straws is facing up.
2. Hold your mouth at the top of each straw and blow across the top of the straw. You will hear a quiet, flute-like sound.