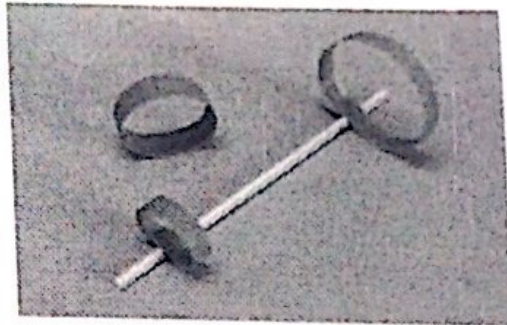


# Cool Science Experiments

## Loop Airplanes

### Introduction

These cool science experiments about loop airplanes are easy to make and fun to fly. Kids have combined straws and increased the number of rings to make these paper airplanes fly the length of a football field!



### Materials

- Straw (look for a long straw like the ones for 44oz drinks)
- Strips of heavy paper (index weight)
- Scissors
- Scotch tape

### Directions

Cut 2 strips of paper from heavy paper. One strip should be 1/2 inch wide and 9 inches long. The second strip should be 1/2 inch wide and 7 inches long. Tape the ends together on the 9 inch strip of paper. Next, tape the ends of the 7 inch strip of paper together. Place the straw inside the first loop and tape it about inch from the end.

Next, tape the smaller loop about 1 inch from the front of the straw making sure both loops are taped to the same side of the straw. This is very important because the planes will not fly as well if they do not sit up straight on the straw.

If you have trouble taping the loops to the straw you can also just overlap the 9 inch strip 1 inch and tape the ends together so that a straw can slip in between the overlapped edges. Repeat these steps with the strip that is 7 inches long.

Place your pointer finger over the back end of straw after getting the loops securely fastened to your loop airplane. The back end of the airplane is where the largest loop is located. Hold the straw between your thumb and another finger. Push your finger forward with a quick motion to make your plane fly.

If your loop airplane flies about 20 or 30 feet it is built correctly. If it doesn't fly that far try moving the straws closer together. Then try moving the loops further apart. Keep trying until your plane flies correctly.

Try these other cool science experiments with your loop airplane. Try making the loops larger to see if they will fly further. Try making the loops thinner or wider to see if your airplane will fly further. Try putting the straws taped together with additional loops to see how far you can make a loop airplane fly.