

Introduction

Flight is a fun packed science activities book designed for students interested in things that fly. Each activity is related to objects that fly through the air. Activities in this activity book include Loop Airplanes, Traveling Balloons, Parachutes, and Flying Polygons.

We believe that students learn by doing science.

Old Chinese Proverb

I hear, and I forget

I see, and I remember

I do, and I understand

Each activity contains the following:

- ◆ The **Introduction** is a brief statement about the activity and other information you might like to know before you start the activity.
- ◆ **Science behind the activity** at the end of the activity. This information explains science principles or current science research related to the activity that you might find interesting.
- ◆ **Pictures** are designed to increase your understanding of how to do the activity before you start.
- ◆ **Materials** in each activity are often found around the home. Often recycled materials can be used for the activities also.
- ◆ **Directions** are written in a clear easy-to-understand format.
- ◆ **More science activity ideas** provides other ideas that you might like to try after doing the activity.
- ◆ **Activity Notes** is a place where you can write your predictions, general notes and any other thing you want to remember about the activity.

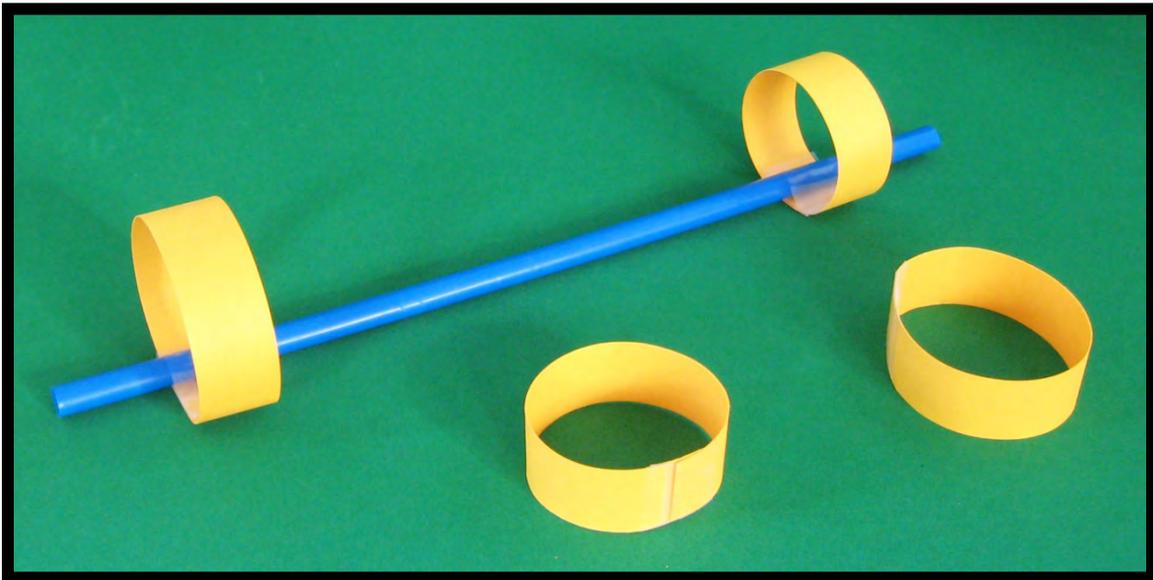
Loop Airplanes

Activity 1

Introduction

Loop airplanes are amazing simple flying machines. Loop airplanes are simple to make and can fly amazing distances. You will be combining two strips of paper taped to a straw to make a loop airplane that can easily fly the length of a room.

Before constructing a loop airplane, see how far a straw flies through the air. Now try making a strip of paper that is $\frac{1}{2}$ inch (2 cm) wide fly through the air. Now comes the fun part of this activity.



Materials

- ◆ Index paper or construction paper
- ◆ Straw
- ◆ Scissors
- ◆ Ruler
- ◆ Scotch tape

Directions

1. Cut two strips of index paper 2 cm.
2. Cut one strip of paper 16.5 cm long.
3. Form a loop with the strip and tape the ends together.
4. Cut the second strip 14 cm long.

Table of Contents

Introduction ♦ 1

Activity 1

Loop Airplanes ♦ 2



Activity 2

Rubber Band Challenge ♦ 4

Activity 3

Spinning Blades ♦ 6



Activity 4

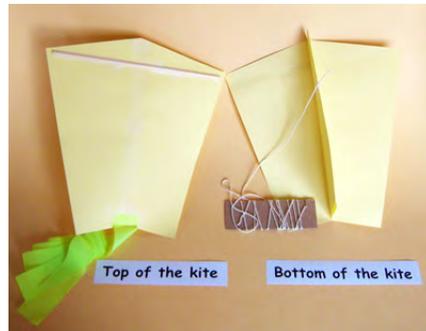
Traveling Balloons ♦ 8

Activity 5

Stealth Airplane ♦ 10

Activity 6

Parachutes ♦ 12



Activity 7

Sunny Day Kite ♦ 14

Activity 8

Flying Sticks ♦ 16

Activity 9

Rocket Balloons ♦ 18



Activity 10
Flying Discs ♦ 20

Activity 11
Foam Flyers ♦ 22

Activity 12
The Glider ♦ 24

Activity 13
UFOs ♦ 27

Activity 14
Flying Polygons ♦ 29

Activity 15
The Sled ♦ 31

Books by Myrna Martin ♦ 34

