



ACTIVITY PLAN



Grades: 3, 4, 5

Subject: Aerospace Engineering

Topic: Aerodynamics

Lesson: Make A Whirlybird

Objectives:

- Identify the force responsible for pulling the whirlybird down
- Explain what the lift and drag forces are
- Explain how spinning affects the whirlybird's motion

Materials:

- Printed copy of <https://www.sciencebuddies.org/cdn/Files/15270/9/whirlybird-template-new.pdf>
- Paper Clips
- Scissors

Instructions:

1. Print the specified document
2. Follow the instructions on the guide
3. Once you create a whirlybird, drop it a few times to ensure it spins
4. Add one paper clip and record what happens
5. Continue adding paper clips until it no longer spins



Notes:

Make an example whirlybird to show students how to create one