

# Paper Warriors of Flight



Planes are often designed for specific purposes, such as flying short distances to accurately hone in on a target, or carrying heavy loads of weapons over long distances. You can try to design your own specialized aircraft using materials in your classroom.

**Materials for each student:**

- two sheets of paper
- a manila folder
- two sheets of tracing paper or tissue paper
- five paper clips
- scissors
- tape, glue, and paper fasteners

**Challenge:** Using only the materials available, build a paper airplane that accomplishes your assigned objective. As you design and test different features, record your results on the chart below. All planes should be launched from the same height. When you have found your optimal design, draw a picture of it under Design Solution and explain why it works best.

**Team 1 Objective:** Design a plane that will fly in the most accurate flight path possible to strike a 10 cm (3.94 in) target from a distance of at least three meters.

**Team 2 Objective:** Design a plane that will remain in the air the longest possible time.

Flight Goal:		
design feature	purpose or prediction for design feature	result of design feature

**Design Solution:**