



The Secret of Flight Program

Current through 2016

PRESENTATIONS

The Secret of Flight: Control – Relates the story of the invention of the airplane, covers benchmarks in four areas but stresses social studies and technology. Approximately 45 minutes long, limit 200 students.

The Secret of Flight: Lift and Drag – Demonstrates how the Wright brothers designed an experiment to determine the size and shape of their airplane wings. Covers benchmarks in four areas but stresses science and math. Approximately 45 minutes long, limit 200 students.

WORKSHOPS

Not Quite Wright Kite – Students build a “quad” (a kite with four control strings), similar to the kite made by the Wright brothers to test their theories of control. Materials include bamboo skewers, plastic garbage bags, flexible straws, tape, and string. Requires about 2-1/2 hours, limit 50 students.

Wind Tunnel and Balance – Students build a 10 mph wind tunnel and a balance that allows them to repeat the same experiment to Wright brothers performed to compare the amounts of lift produced by different wing shapes. Materials include a common box fan, cardboard, duct tape, picnic plates, and aluminum flashing. (We can bring up to 4 box fans but cannot leave them.) Requires about 2-1/2 hours, limit 50 students.

SCHEDULE

You may mix and match presentations and workshops according to the needs of your students. We will make up to 5 presentations per day, 2 workshops per day, or 1 workshop and up to 2 presentations in a single day. If you engage us for more than one day, we will gladly make an evening presentation or conduct an open house for parents and guests on the evening between the two days.

FEE

Our fee is \$1200 per day or portion of a day for the first day, \$800 per for additional days. If your school is over 400 miles from our base in Dayton, Ohio, we require at least a two-day engagement.

ADDITIONAL COSTS

- \$0.75/mile for shipping (both ways) from Dayton, Ohio.
- A per diem for our crew to cover room and board for each night they are on the road. This must be adjusted in areas where costs are higher than average, but for planning purposes use \$150 per day.
- \$25 material fee for each workshop.

For a complete description of our programs and costs, see:

http://wright-brothers.org/Exhibits_&_Programs/Secret_of_Flight/2016_School_Tour_Packet.pdf