

WELCOME TO AERODYNAMICS

Visit the aircraft and exhibits listed below and attempt to answer the questions. Good luck!

Wright Flyer – Atrium

1. Observe the pilot flying the replica 1903 Wright Flyer hanging from the ceiling. What is unusual about the pilot's flying position?

2. Look carefully at the control lever the pilot is grasping. What part of the airplane is it attached to? What might it do?

Montgomery Gliders

3. How did the pilots of John Montgomery's first gliders (the ones hanging) control their aircraft? What is different about the controls of the Evergreen glider below them?

Wright Model B Simulator

4. Take the controls of the Wright Model B (Vin Fiz) simulator. How does the airplane turn left and right?

5. Pitch the airplane's nose upwards. What happens if pitch is increased too far?

XH-44 Helicopter

6. Compare the yellow XH-44 helicopter replica with the UH-12 helicopter (carrying the stretchers) immediately above it. What is different about the rotors of the two helicopters?

Aerodynamics Exhibit (Behind Sky Portal)

7. What two ingredients does a wing need to create lift?

8. Observe the video segment of a Boeing 747 conducting stall tests. What direction does the nose pitch when the wing stalls?

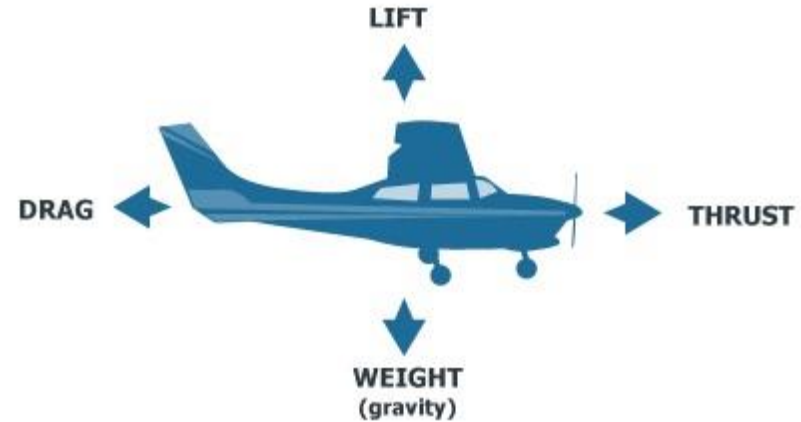
9. Adjust the engine power of the simulated small airplane. What happens when the throttle is advanced up to full power?

10. What do you think is the most interesting aircraft that you saw at the Hiller Aviation Museum today, and why?

Congratulations! You finished the safari!

AERODYNAMICS

Exhibit Safari



Name: _____

School: _____

Date: _____



HILLER AVIATION MUSEUM