MISSION AERO-LAUNCH

THE SECRET OF FLIGHT

HILLER AVIATION MUSEUM

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

JUNIOR AVIATOR: _____

CHECK POINT 1: WRIGHT FLYER – ATRIUM

1. Your first assignment: Focus on the pilot of the 1903 Wright Flyer. Something about the way he's positioned isn't quite... typical. What's unusual about how he's flying that machine? Your observation could be crucial.

_____

2. Agent, it's time to take a good look at the pilot's hand. Do you see the lever he's gripping? What part of the aircraft is that lever connected to? And more importantly, what secret function do you think it controls?

_____

CHECK POINT 2: MONTGOMERY GLIDERS

3. New task. Look up at John Montgomery's early gliders—how did those pilots control their flight? Now, shift your attention below to the Evergreen glider. Something's different in its controls. What's the key distinction? Your discovery could change the game.

_____

CHECK POINT 3: WRIGHT MODEL B SIMULATOR

4. Agent, time to roll up your selves. Step into the cockpit of the Wright Model B simulator —codename: Vin Fiz. Grab the controls. How do you make this bird turn left or right?

_____

5. But stay sharp... there's more. Tilt the nose upwards. What happens if you push the pitch too far? This mission demands precision?

_____

CHECK POINT 4: XH-44 HELICOPTER

6. Great work, your mission is more than half way complete! Examine the yellow XH-44 helicopter below, then shift your gaze to the UH-12 above—the one carrying stretchers. Something critical is different between their rotors. Can you spot the difference? Your keen eye could uncover an important secret.

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CHECK POINT 5: AERODYNAMICS EXHIBIT

7. It's time to crack the code of flight. First: what two ingredients does a wing need to generate lift?

---

8. Now, focus on the Boeing 747 stall tests—when the wing stalls, which way does the nose pitch?

---

9. Next, take control of the small aircraft simulator. Push the throttle to full power. What happens?

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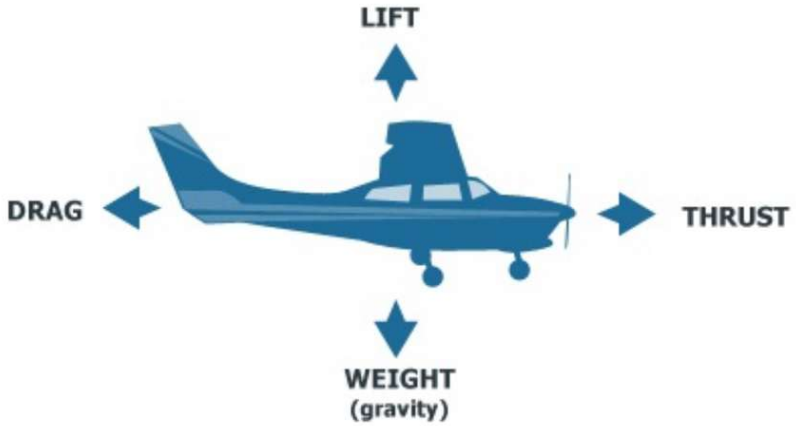
10. Finally, debrief time—what's the most fascinating aircraft you encountered at Hiller Aviation Museum today and why?

AERODYNAMICS:



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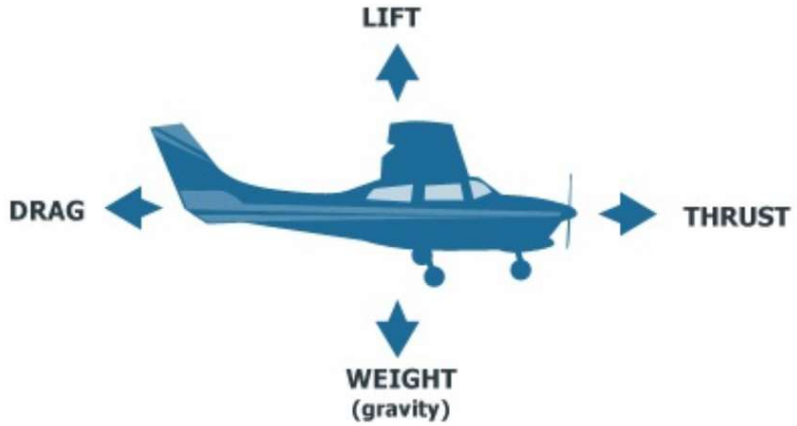

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