

# Young Aviators

Count Down To Takeoff

## ANSWER KEY

1. The 1903 Wright Flyer had NO wheels.

*Wilbur and Orville Wright designed their 1903 airplane to land safely using long wooden skids. Only on later airplanes would they use wheels for landing gear.*

2. The Santa Clara glider is being flown by what kind of person? (Circle the correct answer).

~~Firefighter~~ \_\_\_\_\_

**Acrobat**

~~Construction Worker~~ \_\_\_\_\_ ~~Farmer~~

*John Montgomery designed the Santa Clara to be controlled by a pilot carefully shifting around to keep the glider balanced. He hired Daniel Maloney, a skilled acrobat, to pilot the glider for him.*

3. What carnival ride does the Aerocycloid look like? (Circle the correct answer).

~~Merry-Go-Round~~ \_\_\_\_\_

**Roller Coaster**

Ferris Wheel

~~Bumper Car~~

*Designed in San Francisco by J. C. Irvine, the Aerocycloid was an early – and entirely unsuccessful – attempt at vertical flight. Stanley Hiller Jr. would go on to build and fly the first helicopter flown in California in 1944.*

4. How many rotor blades are on the Buhl Autogiro? 4

*Autogiros are similar to helicopters, but have unpowered rotor blades. They only turn when the autogiro is pushed forward by a regular propeller.*

5. How many rotor blades does the XH-44 have? 4

*The XH-44 had two pairs of rotor blades that turned in opposite directions. Ask a volunteer to demonstrate them for you!*

### EXHIBIT EXPERIENCES

6. Go inside the blue-and-yellow UH-12 helicopter. Move the controls to fly the simulator, and watch to see the real helicopter rotors move with the controls!
7. Go to the Sky Portal. Have an adult help you search to find your school. What does it look like from the air?
8. Climb the stairs to peek inside the giant Grumman Albatross seaplane, or the camouflaged Aero L-39 jet airplane. What do you think it was like to fly these airplanes?
9. Visit the giant blue blocks of the Imagination Playground. Can you build a hangar with a roof big enough for you to stand in?
10. Stop by the wooden vertical wind tunnel near the back hangar door of the Gallery. Can you launch a silk or a parachute so that it will fly out the top?