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# FIXED WING AIRCRAFT

■ A **fixed-wing aircraft** is an aircraft, such as an airplane or aeroplane (See Spelling Differences), which is capable of flight using wings that generate lift caused by the vehicle's forward airspeed and the shape of the wings. Fixed-wing aircraft are distinct from rotary-wing aircraft, in which the wings form a rotor mounted on a spinning shaft, and ornithopters, in which the wings flap in similar manner to a bird.



- Glider fixed-wing aircraft, including free-flying gliders of various kinds and tethered kites, can use moving air to gain height. Powered fixed-wing aircraft that gain forward thrust from an engine (aeroplanes) include powered paragliders, powered hang gliders and some ground effect vehicles.



- The wings of a fixed-wing aircraft are not necessarily rigid; kites, hang-gliders, variable-sweep wing aircraft and aeroplanes using wing-warping are all fixed-wing aircraft. Most fixed-wing aircraft are flown by a pilot on board the aircraft, but some are designed to be remotely or computer-controlled.



- A given wing plane may be full-span or divided by a central fuselage into port (left) and starboard (right) wings.





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