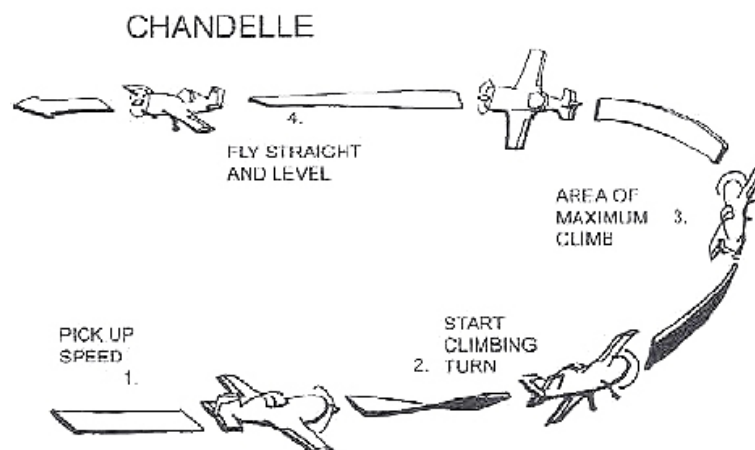


The Chandelle

According to the AMA, 'The Chandelle is an exaggerated climbing turn in which the airplane changes direction through 180°. The model begins a climbing turn proceeding away from the flight line. The maximum climb and bank occur at approximately the midpoint during the change in direction. The maximum bank angle may only be 45 to 60° for non-aerobatic aircraft and up to 90 degrees for fully aerobatic aircraft. The entry speed should be sufficient to prevent visible slipping or skidding and maintain the same turn rate throughout the maneuver. As the 180-degree point is reached in the turn where the aircraft is traveling in the opposite direction from which it entered, the wings are brought level for the maneuver completion.



Errors:

The same turn rate is not maintained.

The model slips or skids.

The model does not provide a notable climb rate.

The model does not finish with wings level on a heading opposite to that entered.

The Chandelle is a very gentle maneuver, and well within the reach of most sailplanes. Its only difficulty is flying the symmetrical 180° climbing turn.

If you're flying a smallish and very docile sailplane, you will find this version of the Chandelle more difficult than with a relatively heavy glider, which will retain enough energy to carry you through the entire climbing turn. With a little practice, you'll quickly get the feel of how much airspeed your particular sailplane requires in order to easily perform this version of the Chandelle.