



Apex Drone

Materials

- 8.5" x 11" sheet of 100-lb. card stock, preferably with a matte texture
- large paper clip, vinyl coated
- clear adhesive tape
- scissors and blade tool

Instructions for Assembly

1. Cut out the shapes. Try to cut on the center of the black lines. A matte knife or other blade tool is needed for tight areas. Young builders should ask for help from an adult.
2. Make creases along the dotted lines. Refer to the drawing above for the angles. The wing tips should be about 10 degrees above horizontal.
3. Carefully slide the right and left nose tabs together.
4. Pinch along the leading and trailing edges of the wing to induce a slight undercamber. This will increase lift and make the wing more rigid. Slide the wing into place.
5. Make sure the rudder-elevators are raised a bit. Slide the tail stabilizer into place.
6. At the back of the nose area, slide the paper clip forward. The larger half of the clip should be on the bottom of the card stock.
7. Use a piece of tape to join the two sides of the tail boom, just in front of the stabilizers.
8. Do some test flights indoors. Throw the plane straight and level, using just a little force. Use the rudder-elevators to influence the pitch. Use the whole tail to influence yaw by pinching the tape and nudging the tail boom slightly to the left or right.
9. The plane is best suited to fly slowly and indoors. If flying outdoors, avoid water and trees. Be sure to reposition the wing and stabilizer after each flight.