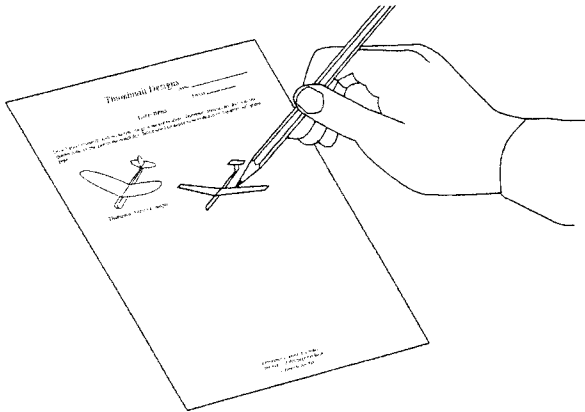
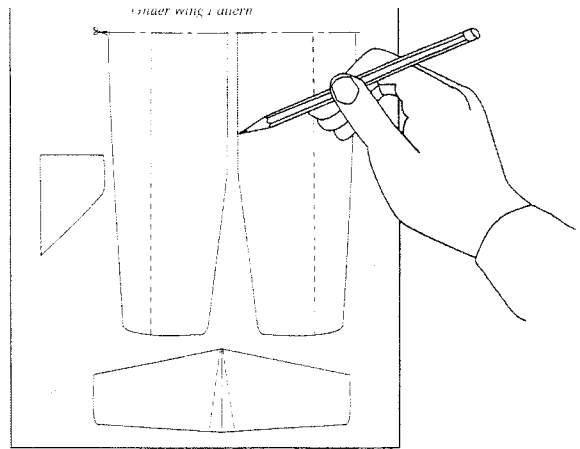


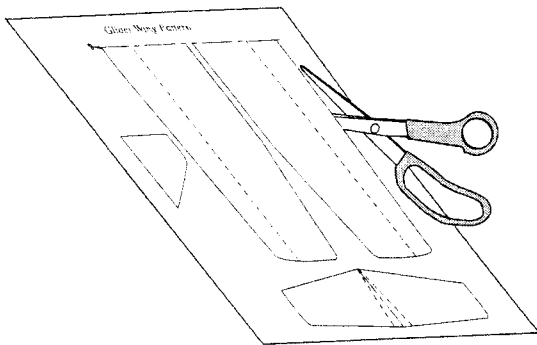
Glider Construction



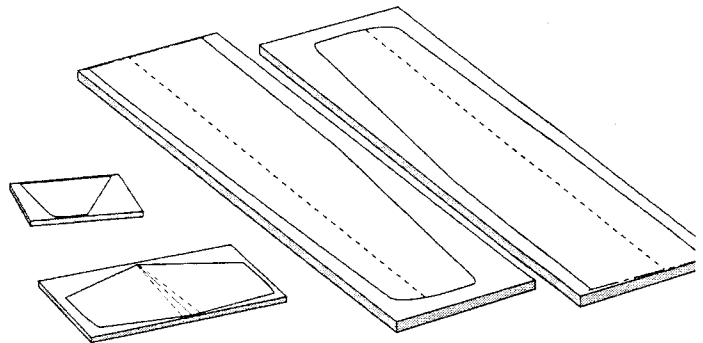
1. Draw 8 thumbnail glider designs on the Glider Design Sheet. Select your best design idea to re-draw.



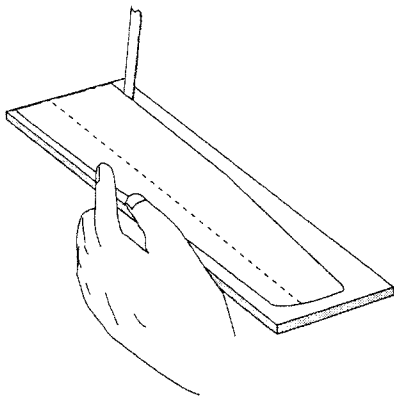
2. Draw the wing, fuselage and stabilizer to full scale on a separate sheet of paper.



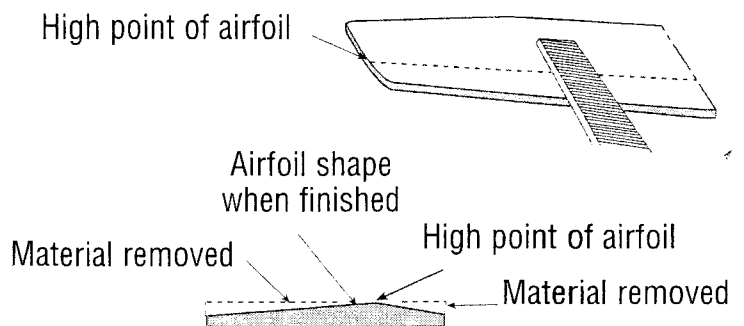
3. Cut-out the wing and stabilizer patterns from your plan sheet.



4. Glue the wing patterns onto two pieces of balsawood, 1/8"x3"x7", with rubber cement. The fin material should be glued to a 3/32" thick piece of balsawood.

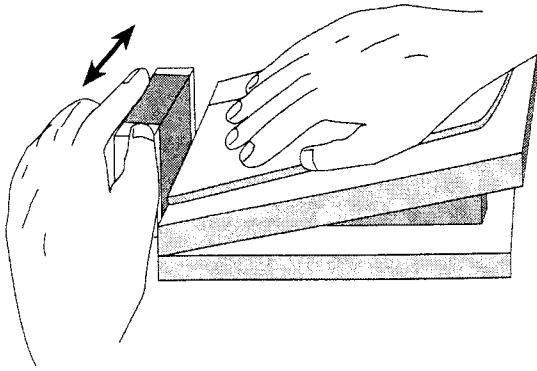


5. Cut-out the wings and stabilizers. Use a fine-tooth blade on a scroll saw or a sharp X-acto knife to cut the wing and fin material.

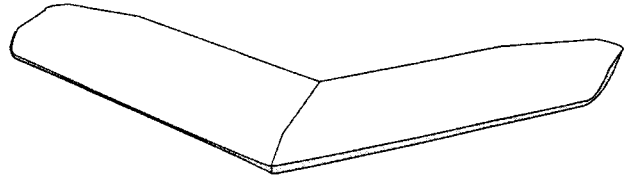


6. File the leading edge and trailer edges to the high point of the airfoil on the top side of the wings.

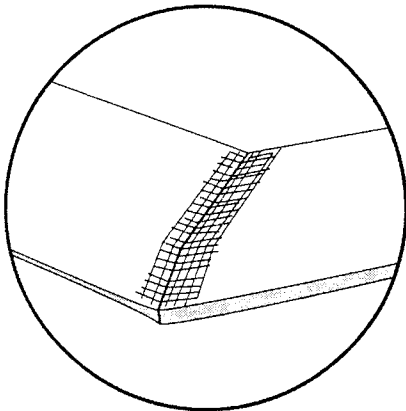
Glider Construction



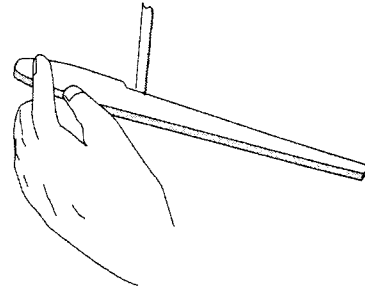
7. Place the wings on a 15° inclined plane, airfoil side up. Sand the wings at the center of the wing core. Note: The right wing and left wing should be facing different directions when sanding the core.



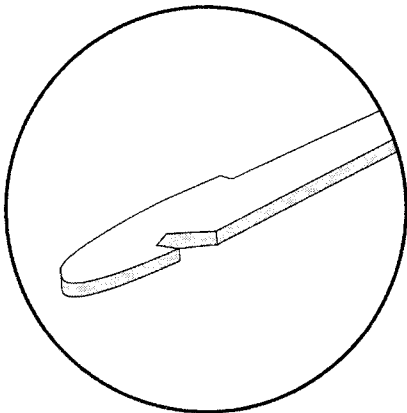
8. Hot glue the right and left wing halves together at a 15° angle. This angle will give your glider's wings more lift.



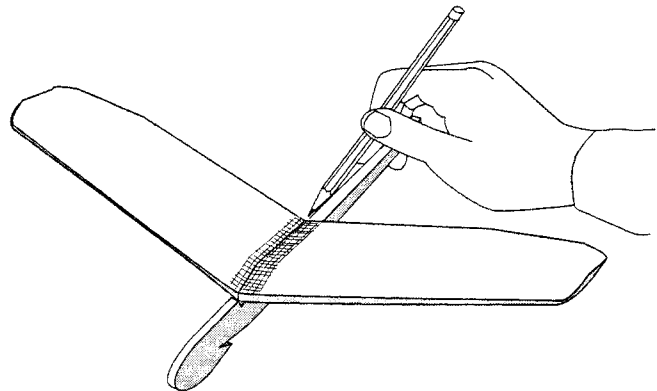
9. Reinforce the center wing core by placing a strip of fiberglass drywall tape over the glued angle. Then spread wood glue over the drywall tape to bond it to the wing.



10. Cut-out a fuselage from a 1/4" x 1/2" x 12" piece of balsawood. The tail end of the fuselage should be tapered so there is less weight at the tail.

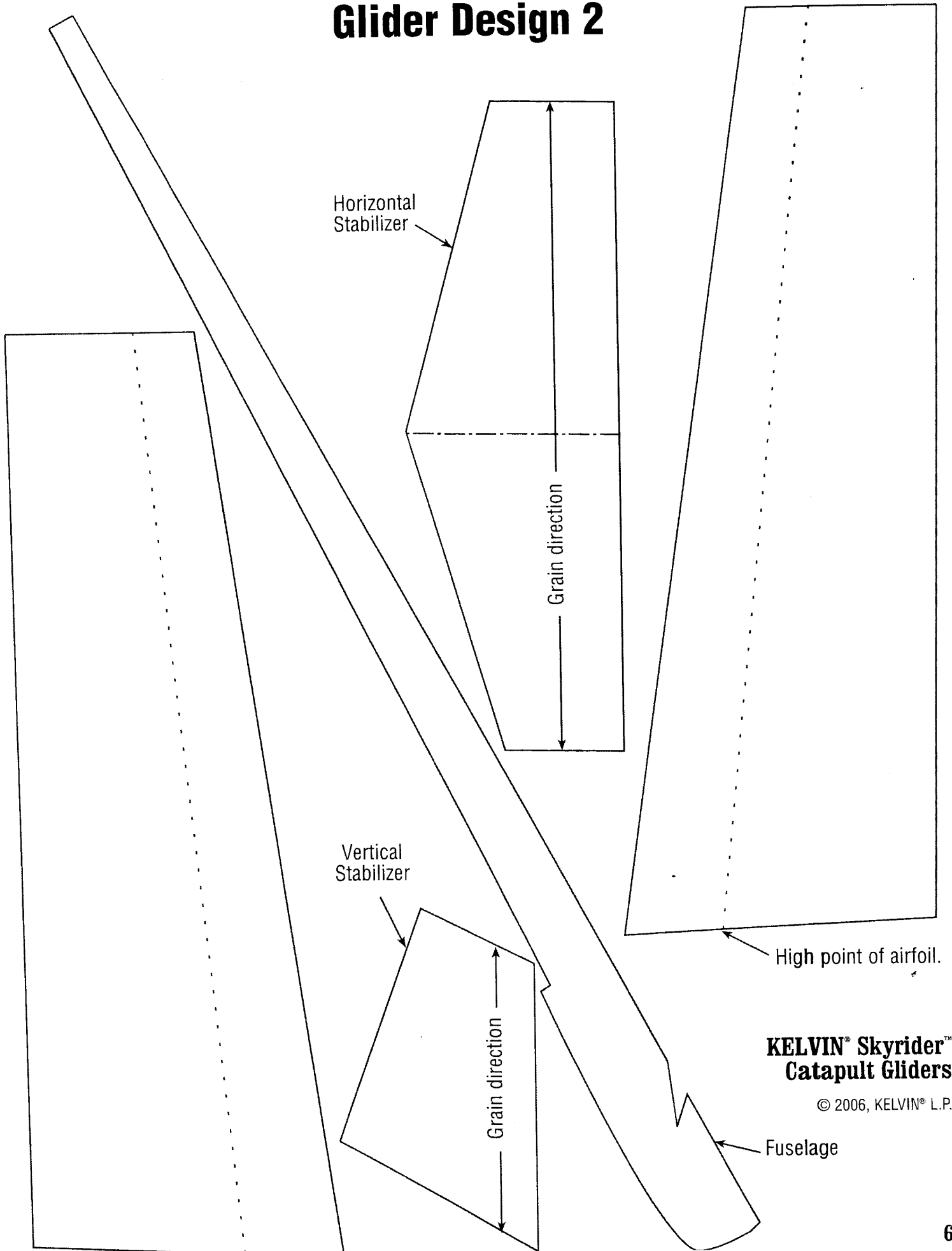


11. Cut a launch tooth into the front bottom part of the fuselage. The launch tooth should be large enough that a rubberband can be attached to the tooth for launching.



12. Mark the wing location on the top side of the fuselage with a pen or pencil.

Glider Design 2



**KELVIN® Skyrider™
Catapult Gliders**

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