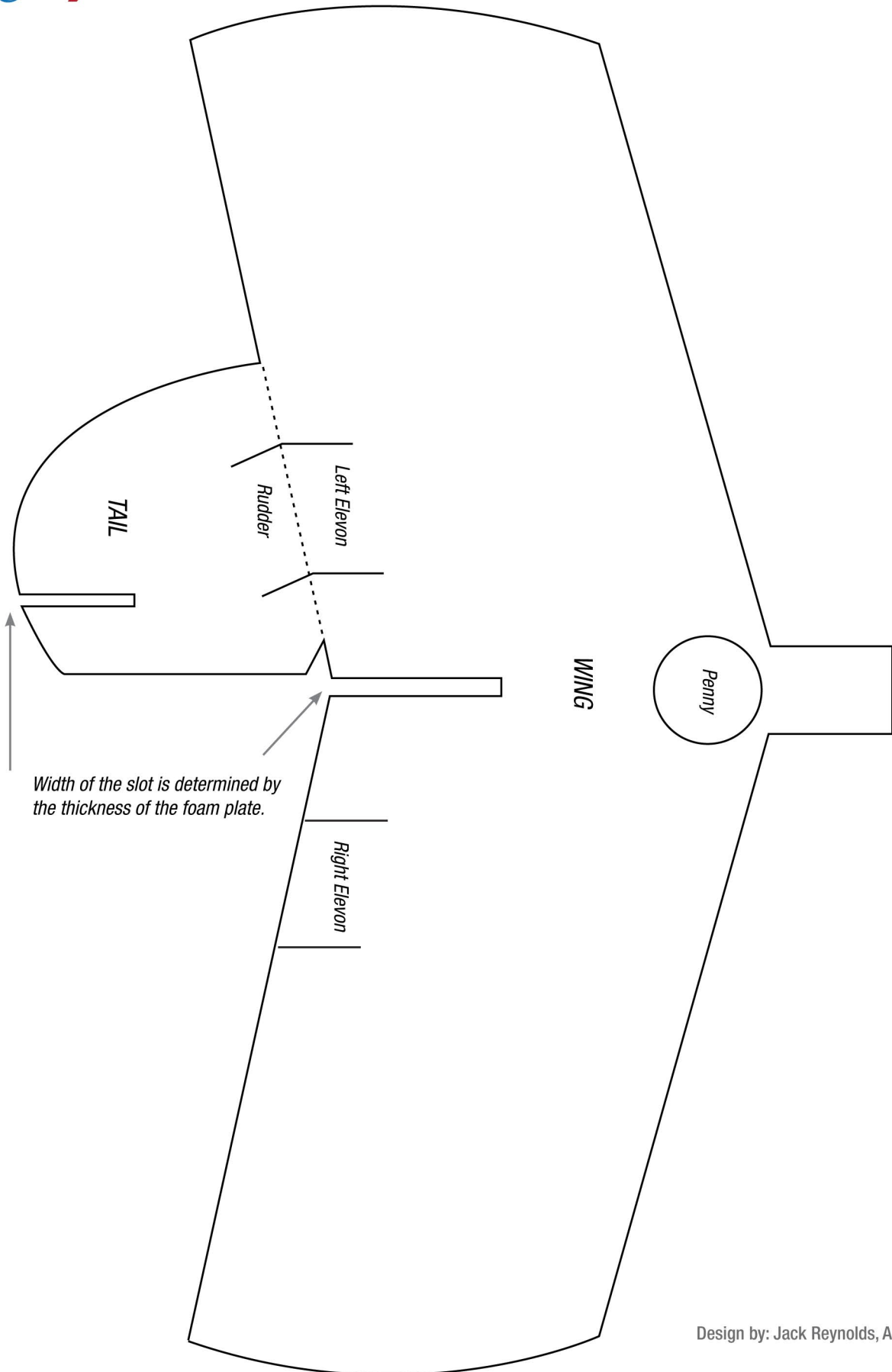


# Instructions:

## You Will Need:

- 9" inch foam plates  
*(use less expensive one-ply plates that will bend.)*
- Scissors
- Clear or masking tape
- Ballpoint pens
- Pennies
- Website: [childrensmuseum.org/flightadventures](http://childrensmuseum.org/flightadventures)

1. Print the FPG-9 Template on card stock or plain letter paper.
2. Cut out the paper FPG-9 pattern. Do not cut along the dotted line on the paper pattern. Only cut along the bold lines.
3. Place the paper pattern in the center of the foam plate ensuring that the tail of the pattern stays inside the curved portion of the plate bottom. The **tail** must remain on the plate's flat bottom. The tab on the front of the pattern may be on the curve of the plate; it will be folded over later in the construction. The ends of the **wings** should reach the edge of the round plate.
4. Trace around the pattern with a ballpoint pen. Mark lines for the slots A and B.
5. Cut out the foam template by following the pen lines drawn. Cut along the dotted line to separate the tail from the wing. It is better to make all the cuts from the outside of the plate toward the center. Do not try to turn the scissors; instead, cut from a different angle.
6. The wing and the tail each have slots drawn on them. Have the students make a cut along each of these lines. The slots should be only as wide as the thickness of the foam plate. If the slots are cut too wide, the pieces of the plane will not fit together snugly.
7. To attach the tail to the wing, slide slot 1 into slot 2. Use small (2") pieces of tape to secure the bottom of the tail to the top and bottom of the wing. Make sure the tail is perpendicular to the wing before adding tape.
8. In order to make the plane fly successfully, attach the penny on the top of the wing, right behind the square tab. Fold the tab back over the penny and tape it down to secure the coin. This adds weight to the front of the plane, allowing it to fly farther. **Fly the glider!**



Width of the slot is determined by the thickness of the foam plate.

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