

Folded Meadow Butterfly

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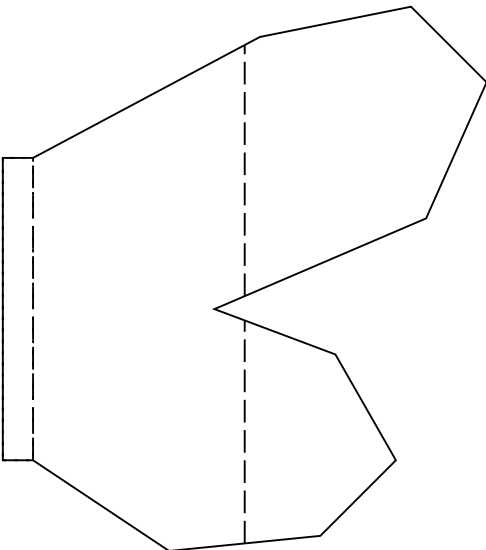
AR | cut 1
2.00 x 26.00 mm



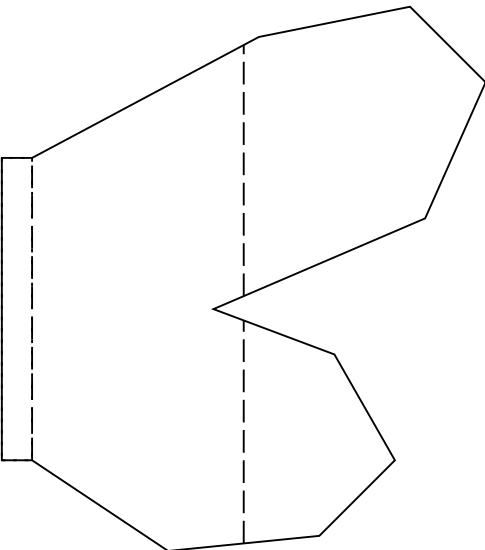
AL | cut 1
2.00 x 26.00 mm



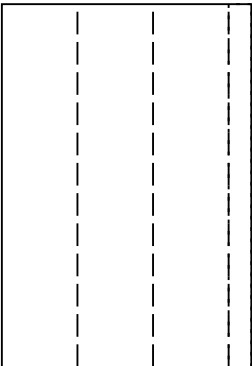
WR | cut 1
64.00 x 72.00 mm



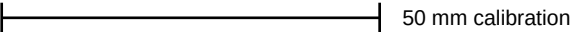
WL | cut 1
64.00 x 72.00 mm



B | cut 1
33.00 x 48.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

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Finished size: 106 x 72 x 35 mm approximately

Materials: 160-180 gsm paper, colored both sides; Scissors; PVA glue; Ruler; Blunt scoring tool; Protractor

Original five-piece design. Physical printing, cutting and assembly verification pending.

All faces preserve flat lengths. The preview idealizes paper as zero thickness; glue laps coincide and real crease radii are omitted.

Front means the body end facing the larger upper wing lobes. Body ends are deliberately open. No wire, hidden support or stretching is used.

Left wing uses the same cut shape turned over. Valley marks apply with the intended top face upward; on WL this is the unprinted side.

Part inventory (cut each instance once):

B: Triangular body sleeve

WR: Right lobed wing

WL: Left lobed wing

AR: Right antenna

AL: Left antenna

1. Calibrate, cut and score [B, WR, WL, AR, AL]: Print at actual size; confirm the ruler is 50 mm. Cut one of each of the five pieces. Score dashed lines lightly. Keep dotted glue zones intact. Transfer WL fold positions to its reverse before turning it over.
2. Close the triangular body [B]: B is 33 x 48 mm. Across its 33 mm width, valley-fold at 10, 20 and 30 mm by 120 degrees from flat (60 degree internal corners). The first three 10 mm panels form an equilateral tube, 48 mm long and 8.66 mm high. Glue the final 3 mm lap inside the first panel with a full 3 mm overlap. Press along the open ends and let set 10 minutes. Use the first panel as the bottom; leave both ends open.
3. Shape the lobed wings [WR, WL]: Keep each 4 x 40 mm root tab flat. WR has printed face up; turn WL over. Lift the broad wing 25 degrees above its tab about the root crease. At the two separated creases 28 mm outboard of the root, lift each outer lobe another 20 degrees, giving a 45 degree tip plane. These are gentle valley bends, not folds pressed closed. Do not cut across the notch or force a curve.
4. Bond wings under the body [B, WR, WL]: Orient the larger lobes toward the front. Glue the TOP of each 4 x 40 mm wing tab to the underside of the 10 mm body bottom. Put each root crease exactly along its corresponding long body edge; tabs extend 4 mm inward, leaving a 2 mm center gap. Center the 40 mm tabs on the 48 mm body: 4 mm setback at both ends. Hold tabs flat while wings rise outward; let dry 15 minutes.
5. Bend and fit antennae [AR, AL, B]: Each antenna is 2 x 26 mm. Keep its first 6 mm flat; valley-fold at 6 mm to lift the next 14 mm by 35 degrees. At 20 mm lift the last 6 mm another 35 degrees, to 70 degrees above the base. On the body underside place the center of each short starting edge 4 mm behind the front end and 1 mm right/left of the centerline. Splay each strip 20 degrees outward from the forward body axis. Glue only its marked first 4 mm to the underside (including the wing tab where they overlap). The first bend lies beyond the open front end. Hold until set.
6. Set symmetry and dry [B, WR, WL, AR, AL]: Rest the flat body bottom on the table, check both inner wings rise 25 degrees and outer lobes 45 degrees, and keep antennae clear of the open end. Let all joints dry 30 minutes or follow the glue label. Expected span is about 106 mm and highest wing tip about 35 mm. Lift by the body, not an antenna. Record any changes needed during the pending physical build.