

# Windy Duck Assembly Instructions

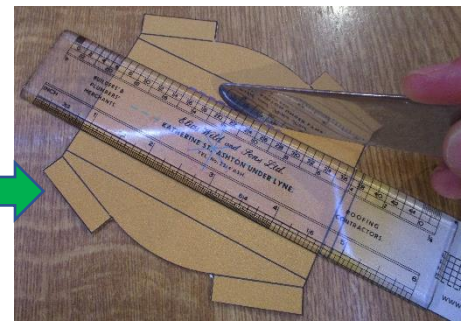
1. Ensure that your printer can printing on card - printers with rear feed trays tend to work best for this.

2. Collect together your materials. You will need:
- Three sheets of white A4 card (200 - 250gsm)
  - A good pair of scissors
  - A ruler (clear plastic is best)
  - A blunt knife for scoring
  - Glue for paper & card (liquid is better than stick glue for this job)
  - A pencil
  - Two marbles
  - A craft knife, (or sharp kitchen knife if you don't have a craft knife)

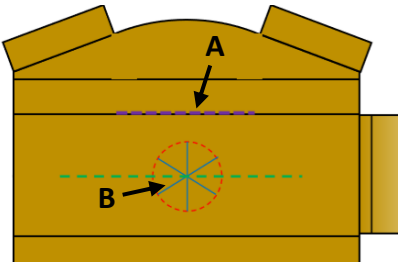


3. Print off the three A4 template sheets (A4 landscape - otherwise you will have a very small duck!)

4. Carefully cut out all of the pieces.

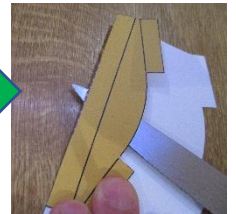


5. Start construction with the rocker base (The brown/yellow piece that looks like a tortoise with a long neck). Score along all of the black lines. Don't forget the closely spaced short black lines on the thin strip with the 'Pencil Workshop' logo.

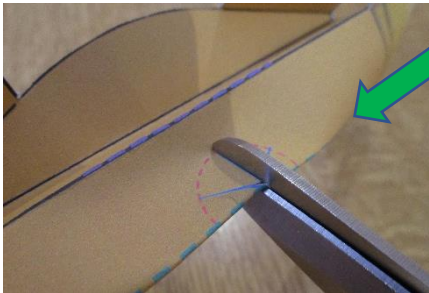


6. If you have a craft knife, now is the time to cut along the 4cm long purple dashed line (A) and the six blue lines within the red circle (B). If you don't have a craft knife, follow instruction 7 below.

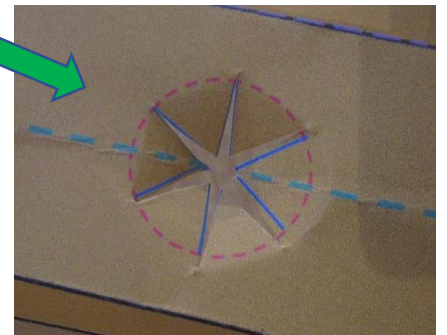
7. If you don't have a craft knife, cut the purple line by folding the rocker on the line and inserting a kitchen knife to cut through the card as shown.



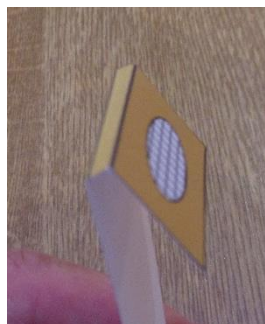
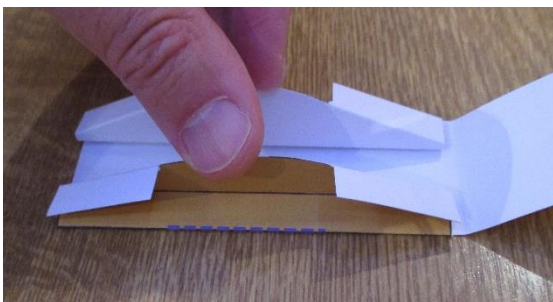
Having cut the 4cm long purple line, fold along the dotted green line where it passes through the circle and use scissors to cut the blue lines. If all goes well, the centre of the circle should look like this



8. Having completed the cutting, fold along all of the black lines to make the shape shown below.



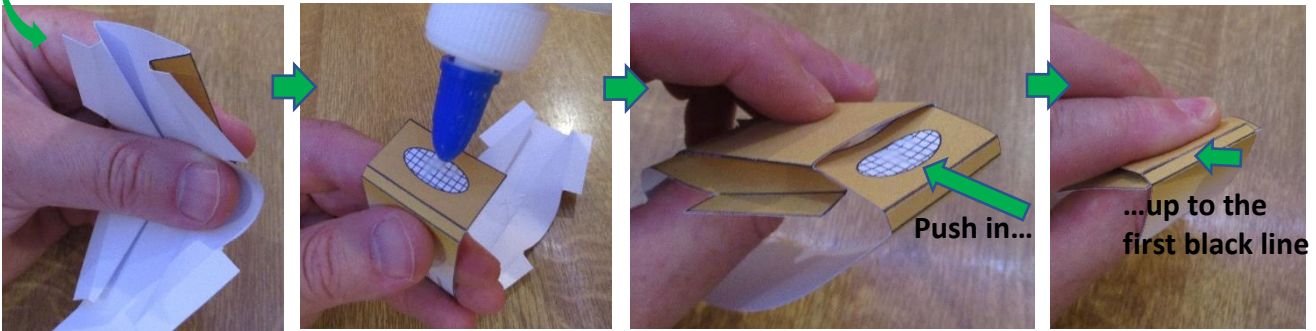
Note, the closely spaced black lines either side of the logo both need to be folded, even though they are very close together.



9. Find your glue for the next stage. Tabs to be glued are marked with a black square pattern. Note: only a little dab of glue is needed for the next stages. If you use too much, you will be holding the joints for ages before they set.



10. Bend the main part of the rocker (don't fold it) around your thumb and apply a small amount of glue to the oval area marked with the square pattern. Insert this glued tab into the main body of the rocker, right up to the first solid black line. Squeeze the parts together for a few seconds until the glue sets.



11. The rocker should now look like this. Put it to one side to let the glue dry, and now start work on the duck's tail.



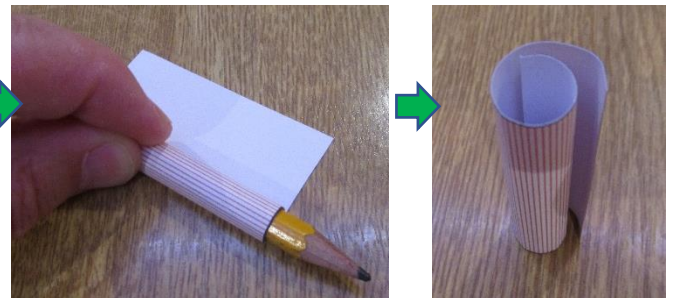
12. The duck's tail is the long black and white strip with the single glue tab. Fold the glue tab over, and lay the tail on the table, with the printed side down.



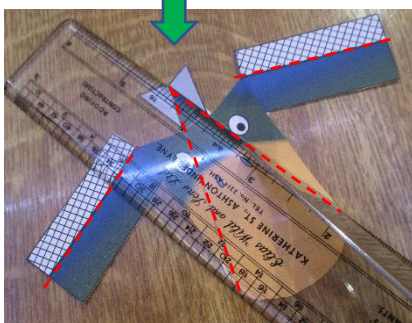
Apply glue to the tab, and also to the rounded section at the base (see red area below). Bring the two sides of the tail together (make a loop - don't fold) and hold them until the glue sets.



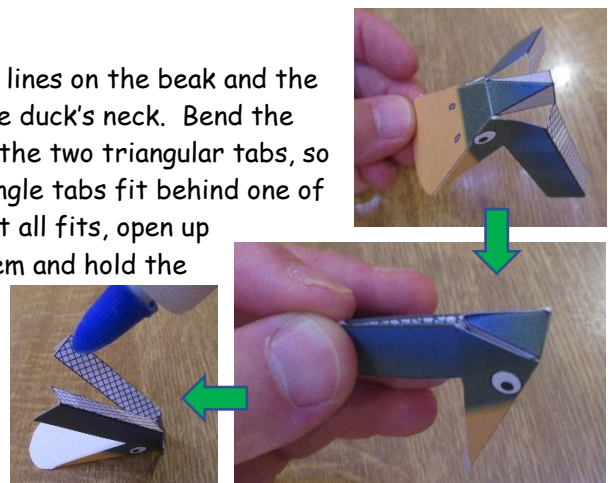
13. OK. Now for something really easy; we are going to make the marble tube. Take the red and white striped square and roll it round a pencil. That's it. Now place it on one side for later.



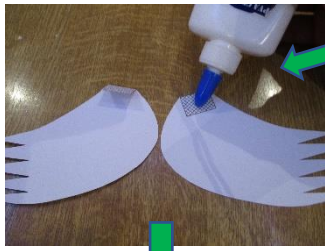
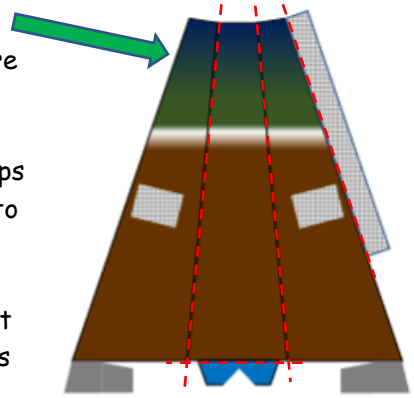
14. Now for the duck's head. Score along the two diagonal lines along the beak, and where the glue tabs meet the neck. (Shown in red dotted lines in the image below).



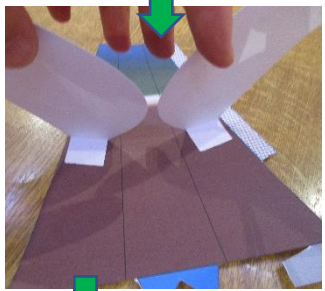
15. Fold the diagonal lines on the beak and the tabs on the back of the duck's neck. Bend the back of the head with the two triangular tabs, so that the two grey triangle tabs fit behind one of the neck tabs. When it all fits, open up the neck tabs, glue them and hold the back of the neck together until the glue sets.



16. Score the body section along the two main vertical lines, the long glue tab and the blue tab (see red dotted lines in the diagram. Do not score the two little grey tabs at the base.



17. Fold the glue tabs backwards on the tops of the wings and apply a small amount of glue to the marked area.

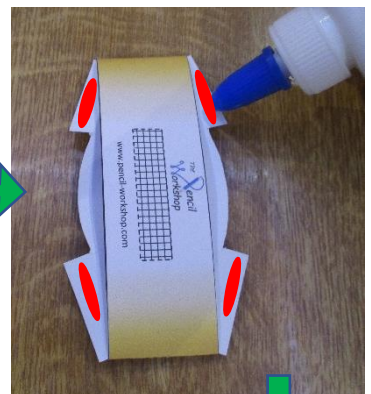


18. Stick the wing tabs to the body, so that when the wings are pressed flat they line up as shown below, with the feathers pointing outwards. Make sure that the wing tab covers all of the marked area on the duck's body, and the bottom of the wings just cover the tops of the grey tabs.



19. Leave the wings and body to dry for a while and find the partially completed rocker from 11 above.

20. Turn the rocker upside down. You will see four tabs sticking out. Apply a thin layer of glue to each tab (marked in red on picture)



21. Squeeze the tabs into the base of the rocker until they are just within the edges of the curved base and press the glued tabs against the curved base.

Hold for a few seconds until the glue dries.

22. Whilst the glue on the rocker is drying, it is time to make up the duck's body. Fold the body and the glue tab to make the body into a triangle shape.

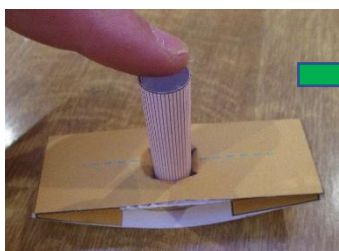


Glue the long tab at the back of the duck and hold the body together until the glue dries. It helps to allow the wings to fold upwards whilst doing this.

23. Now you have completed the body, it's time to finish off the rocker.

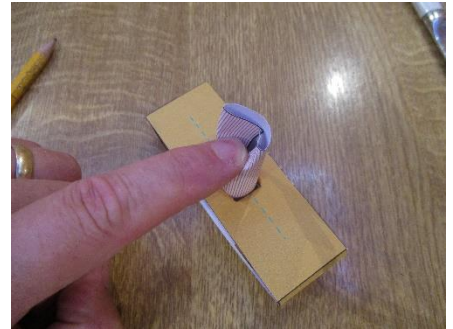


24. Insert the marble tube into the circular opening of the rocker. Push the first marble into the tube. Use the blunt end of the pencil to push it all the way to the bottom of the tube. You will have to push it quite hard, for the last centimetre. When the first marble is at the bottom of the tube, insert the second marble after it as far as it will go.

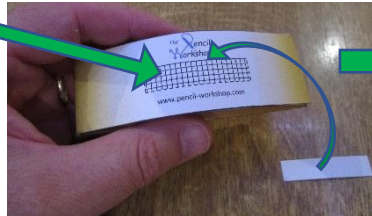


When the first marble is at the bottom of the tube, insert the second marble after it as far as it will go.

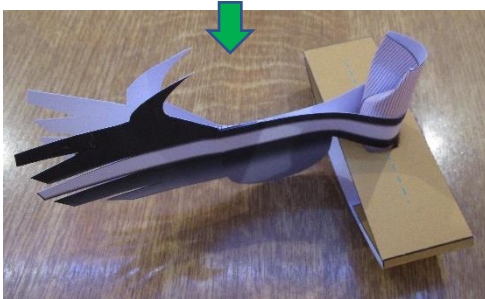
25. Squash the back of the marble tube with your finger - this stops the marbles from falling out if your duck falls over. Note: The back of the marble tube is the side opposite the cut you made in the purple line marked 'A' in step 6. If you accidentally squash the front of the marble tube, you will need to re-squash it the other way ☹️



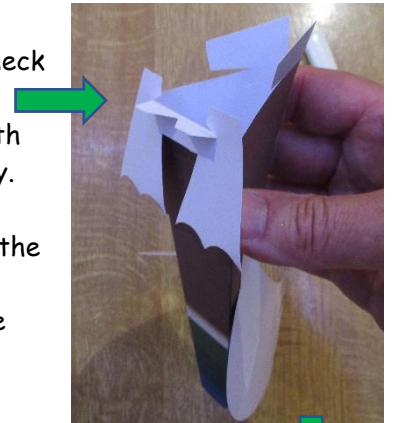
26. Turn the rocker upside down and you will see a hashed area between the PW logo and the website address. Glue the little brown/yellow strip over this area, so that the hashed pattern is perfectly covered.



27. Take the tail and place it over the marble tube. Ensure that the tail is pointing away from the purple lined 'A' noted in step 6.

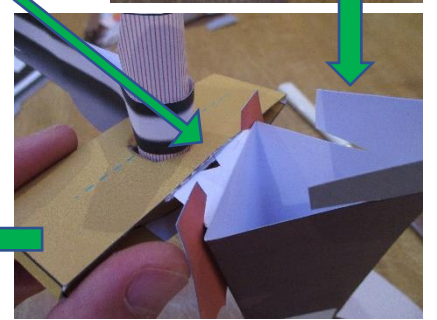
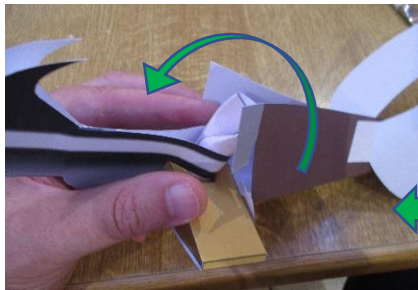


28. Hold the body with the neck pointing downwards. Place the orange feet over the blue tab with the orange side towards the body.

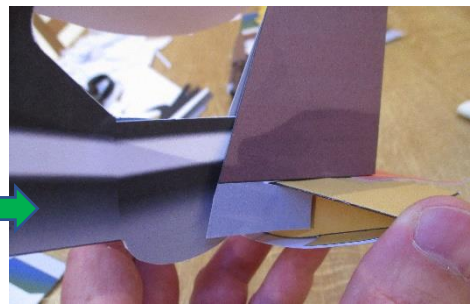


29. Insert the blue tab into the slot at the front of the rocker. Ensure that the blue tab is in the slot, not under it.

30. Keeping the wings up, slowly bring the body over the rocker base. Ensure that the blue tab does not fall out of the slot whilst doing this. You will need to gently ease the body over the marble tube, by pulling the base of the body apart slightly, and pushing the marble tube forwards a bit.



31. Once the body is fully over the rocker base, clip the two grey tabs under the top of the rocker base. This holds the body to the rocker.

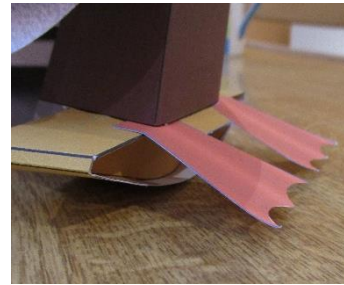
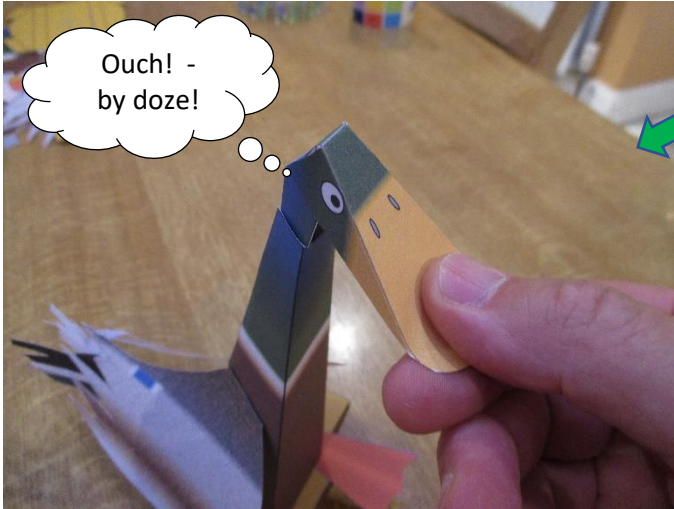


32. Let the wings flop down and clip the second wing feather of each wing behind the hooked black tail feather of each side of the tail.



33. Carefully insert the head into the top of the neck. Push down until only about half a centimetre of neck is showing.

34. Take hold of the end of the beak, and give it a slight bend upwards (not too much - just until it looks a bit 'duck-like')



35. Bend the feet slightly downwards so that they are just above (but not touching) the ground.

Congratulations, you have built your first duck! It should look a bit like this:



Now all you need is a smooth flat surface and a gentle breeze. Place your duck on a flat surface (desk, lino, or flat paving slab etc. where there is a slight breeze). Your duck should turn to face the wind. If the wind is just right, it will then start waddling towards it. You can use your duck with a desk fan too but you may need to experiment with the fan angle, distance and speed setting. Small desk fans can produce very turbulent air, which will confuse your duck.

p.s. the design can be scaled for a larger or smaller model by printing off on A3 or A5 card, on a 'fit to paper size' setting. For printing an A3 duck, use a single larger marble, or another object of similar size and weight. For printing an A5 duck, you will need to find a smaller weight to go in the marble tube.