

AUTHORIZED AMA  
STE(A)M PROGRAM

# QUICK PROJECT

*THANKSGIVING  
EDITION*

# GOBBLER GLIDER



AN OFFICIAL PUBLICATION OF THE ACADEMY OF  
MODEL AERONAUTICS EDUCATION DEPARTMENT

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# SUPPLIES

Standard 8.5 x 11 inch paper

Markers, colored pencils, or  
crayons

Printer (if you use the template)

## A brief history of Origami

While the word “origami” is typically associated with Japanese culture, the fact is that the art of paper-folding originated independently around the world. In China and Japan, the craft often saw use in ceremonies such as weddings and funerals, while Europeans used it to denote noble status through elaborate napkin-folding techniques.

Nowadays, origami can still serve ceremonial and decorative roles, but it also has multiple practical applications. Mathematicians have used different patterns to study highly advanced theories, and engineers have applied the principles to the design of everything from airbags to solar panels.

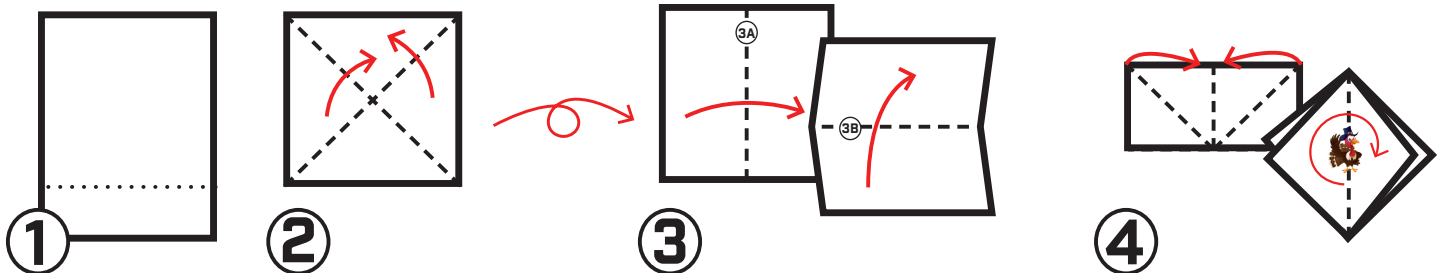
There are many different variations on origami techniques; some designs require only a single piece of paper, while other models are put together after folding several separate sheets. Some paper models can move, some can be inflated, and some—as we will see with this particular design—can fly!

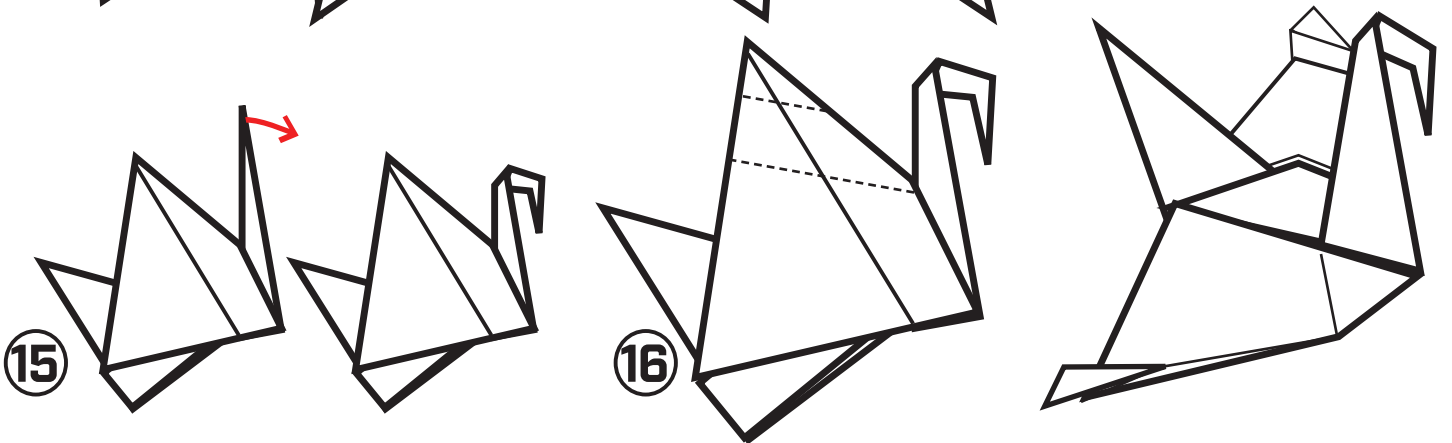
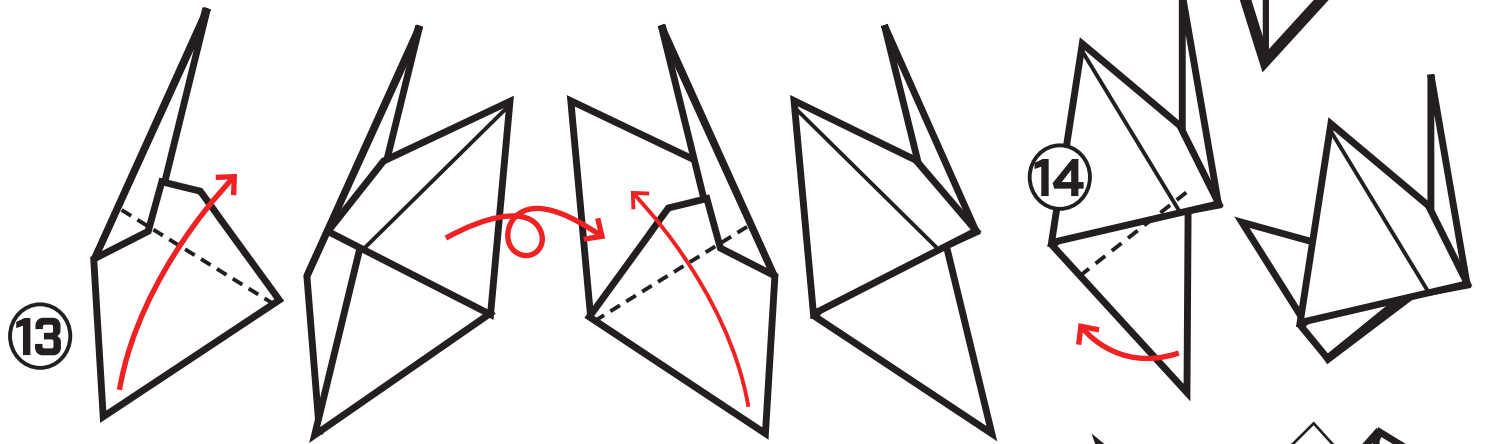
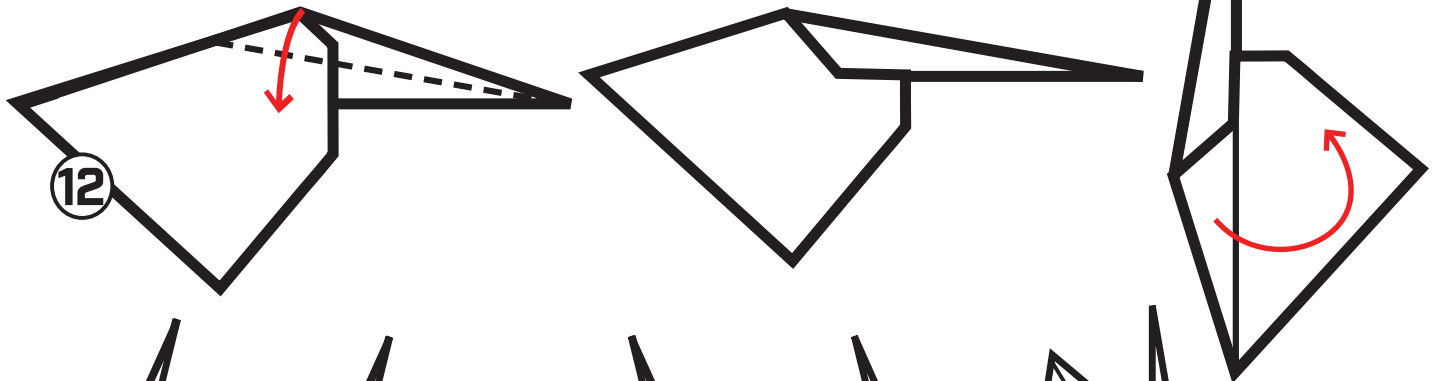
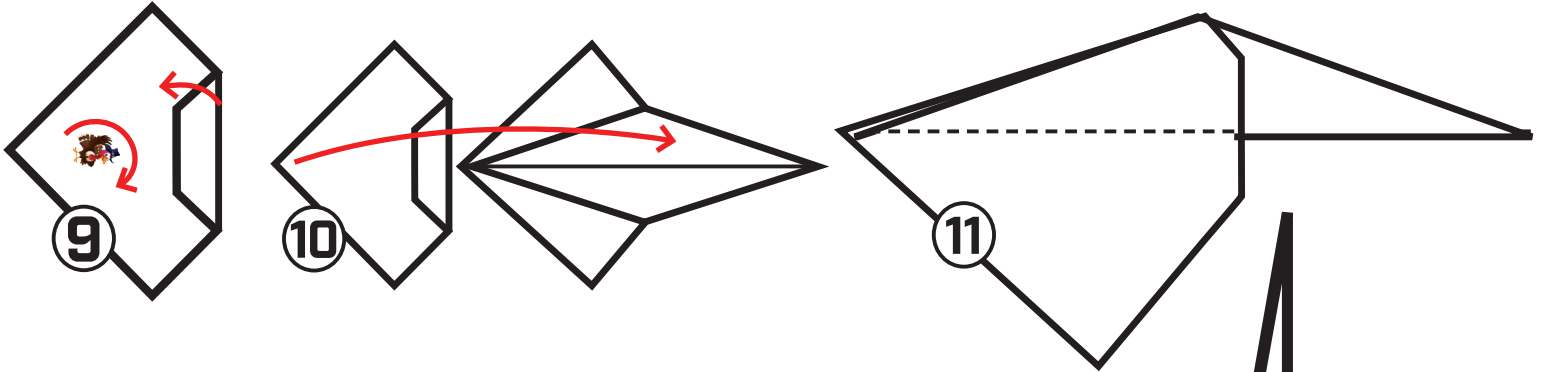
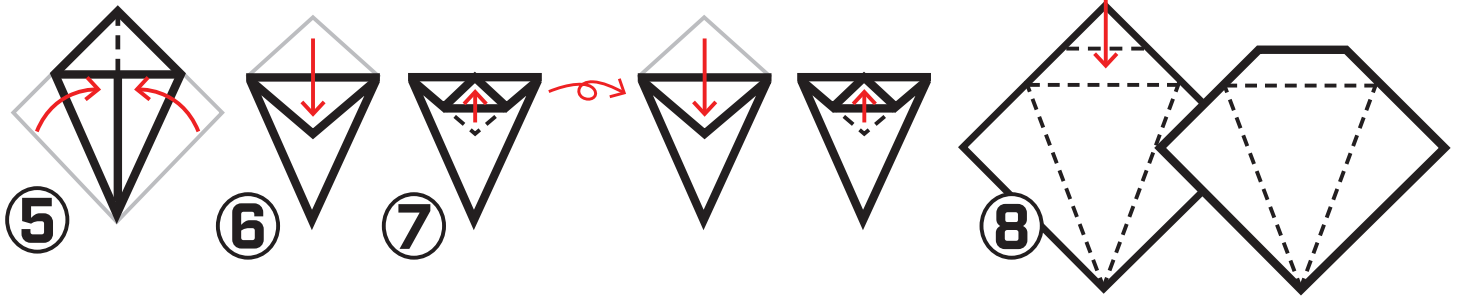
## Gobbler Glider Build Instructions

Originally designed by Paul Jackson, U.K.

Numbers on the template correspond to the instructions below! Use a square piece of paper. The thinner the paper you use, the easier the design will be to fold.

1. Cut the paper into a square.
2. Fold the paper in half diagonally, crease and unfold. Repeat for the other diagonal. Flip the paper over.
3. A) Fold in half vertically, crease and unfold. B) Repeat horizontally and leave folded in half.
4. Pinch top right and left corners together and collapse the creases you have made. The paper should form a multilayered diamond shape. Flatten so that you can see the turkey on top and Spin 180°.
5. Fold the lower edges of the diamond to meet the center crease.
6. Fold the top corner of the diamond down to cover the flaps you have just formed.
7. Fold the bottom corner of the smaller triangle up to meet the top of the paper. Unfold the point, flip over, and repeat steps 6 and 7.
8. Unfold paper to the diamond from step 4, and then sink the center top corner down into the diamond’s layers along the crease you just made. This is the first really tricky step, so be patient and careful.
9. With the turkey icon facing up, re-fold the crease you made in step six. Rotate the diamond so that the “sunk” corner is to your right.
10. Take the upper layer of the diamond’s left-hand corner and lift it up and over to the right. A narrow diamond shape should naturally form as you pull. Flatten it.
11. Fold the top and bottom points of the narrow diamond together. Fold the remaining larger diamond flaps downward. It should look like the shape shown in diagram 11. Flatten both top flaps away from each other to the center line as shown. Turn counterclockwise 90°.
12. Fold up at the dotted line to create a wing, turn over, and repeat.
13. Pull the bottom corner out and crease flat along dotted line. The shape of the turkey should be apparent by now.
14. Fold the top of the turkey’s “neck\* down to the left to form its head. It can be pleated to form a more detailed beak if you choose.
15. Fold a set of pleated winglets on the ends of both wings. Lift the wings up and form the paper into a turkey-shaped paper airplane as shown by the dotted lines.
16. Hold the turkey near the back of its bottom and toss forward just like a normal paper airplane!







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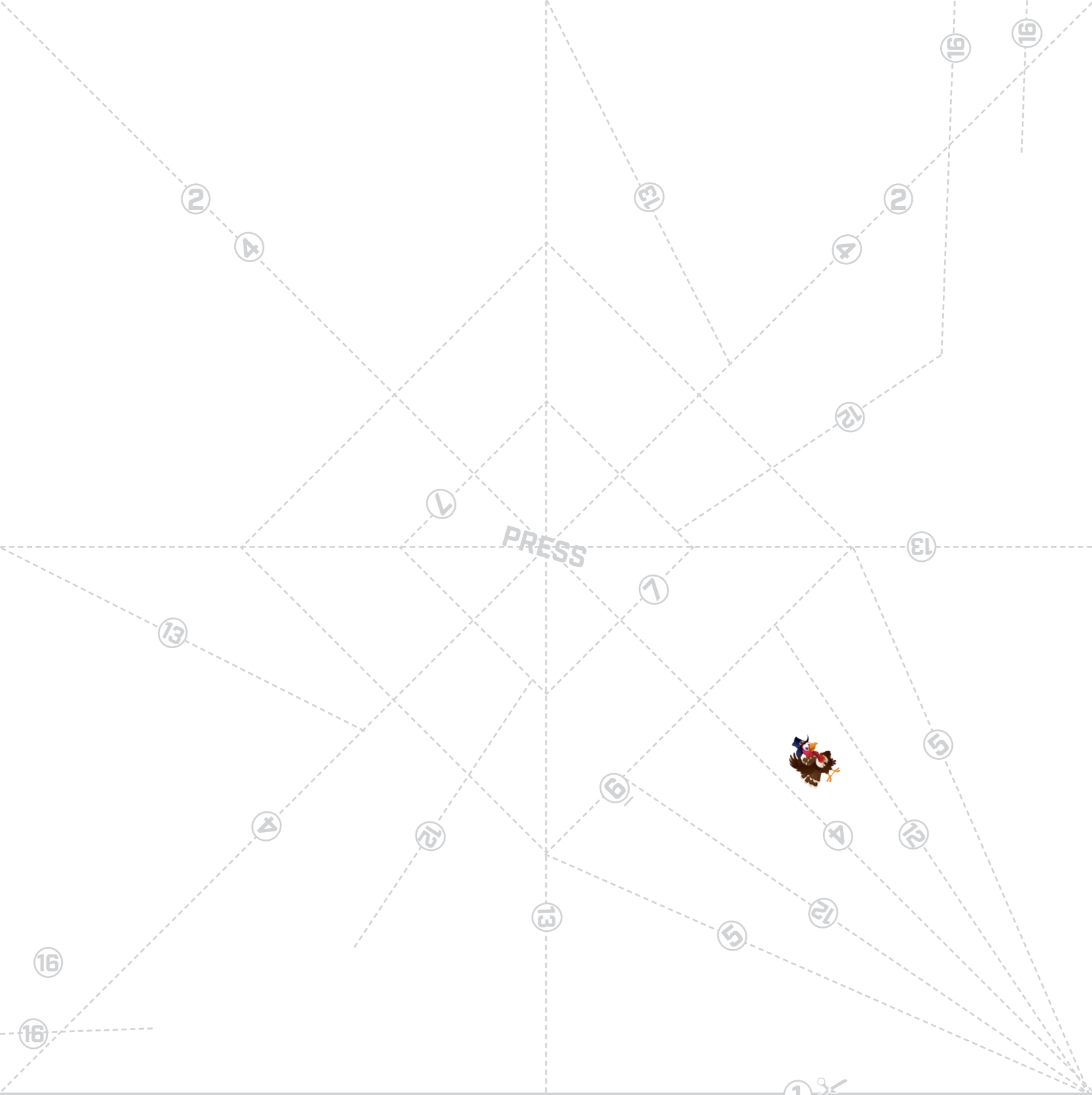
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3A

14

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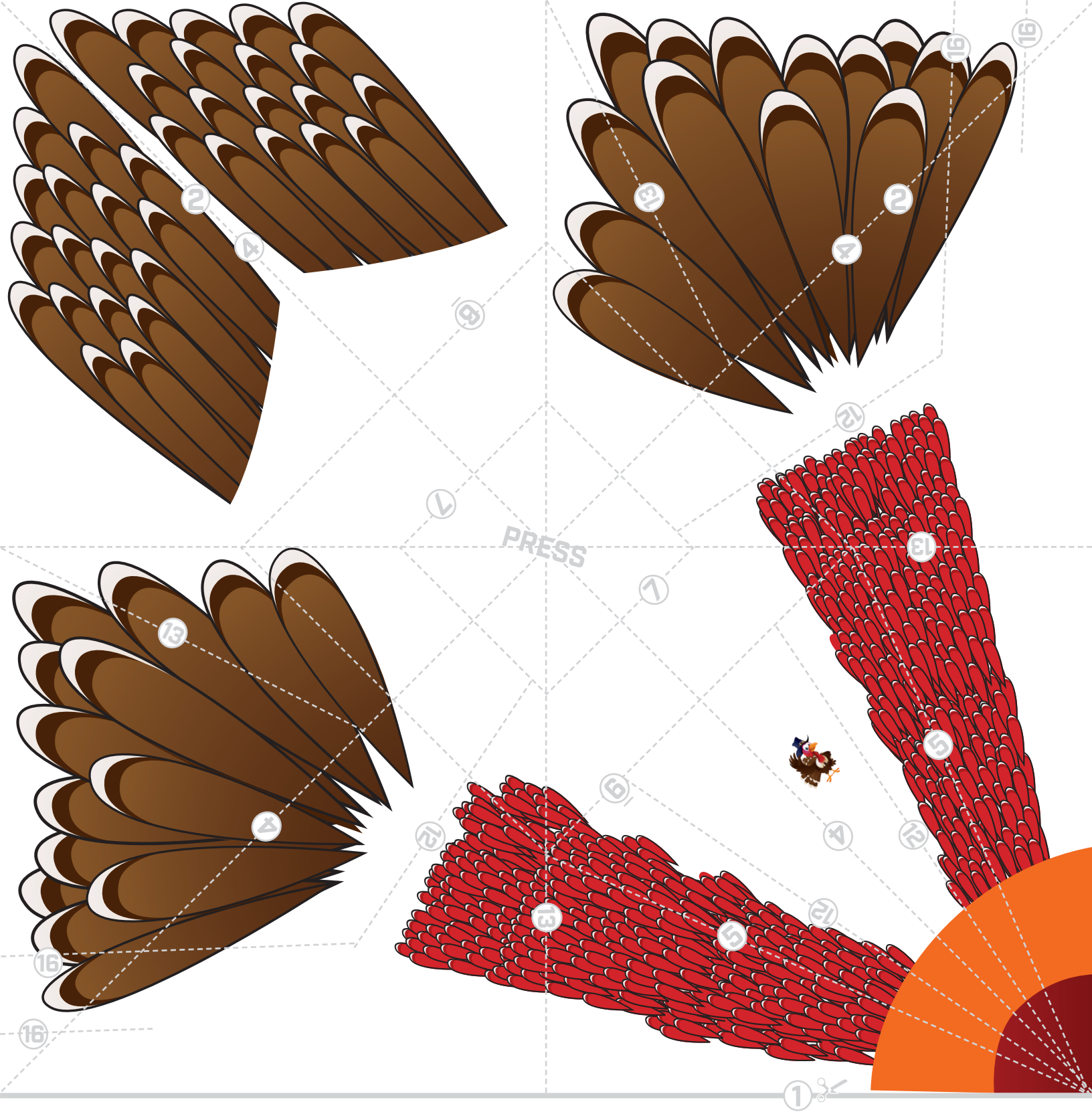
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