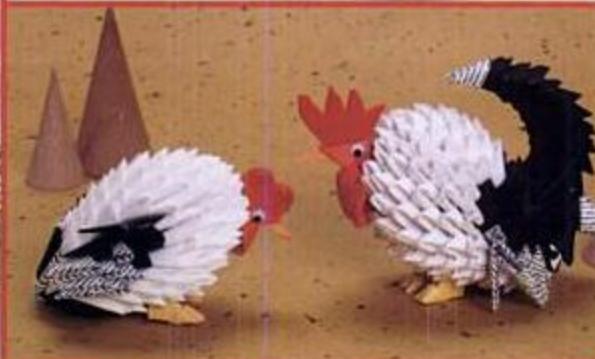


**more
&
more**

3D ORIGAMI

STEP - BY - STEP ILLUSTRATIONS



more & more 3D ORIGAMI

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Introductory Note



Welcome to our third title in the popular "3D ORIGAMI" series. We invite you to try these new adventures in the creative use of your everyday wastepaper. Amaze yourself as you construct sturdy three-dimensional figures from our "magical" paper triangles – with no special equipment needed! Sure, it's time-consuming, but it's also very satisfying and entertaining. That's why, in Japan, this new kind of craftwork has been a great hit among people convalescing after illness.

In this edition, we feature two new categories: the long-awaited "Oriental surprises" and some "special-paper creations." The Oriental surprises include traditional "lucky" ornaments and zodiac animals. You will learn new techniques that enable you to form pointed shapes, to supplement the rounded shapes introduced in the earlier series. Your "special-paper" creations will include irresistible glossy sculptures, featuring a uniquely soft touch – that you'll never even consider throwing away.

Learn the basics, and develop your own designs by varying the paper types, shades and patterns. Old or young, this is fun that everyone can share!



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Hints for Gluing Pieces Together

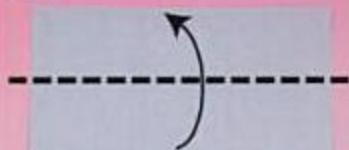
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The Basic Triangles

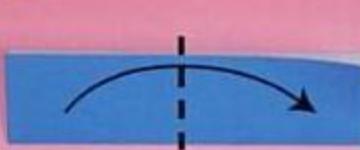
Fat rectangle (such as $1\frac{1}{2}'' \times 2\frac{3}{4}''$, $2'' \times 3\frac{1}{2}''$ or $1\frac{1}{2}'' \times 2\frac{3}{4}''$ piece)

1



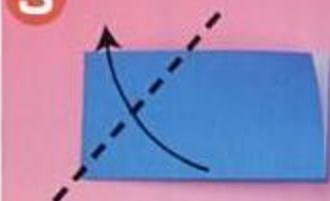
Place fat rectangle plain side up, and fold up in half.

2



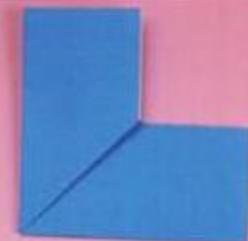
Fold in half again.

3



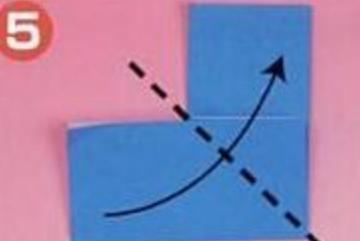
Making sure the bottom is folded, fold up diagonally.

4



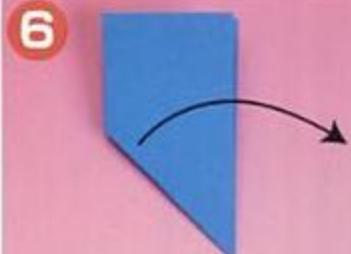
Crease so the previous bottom fold aligns with the left side.

5



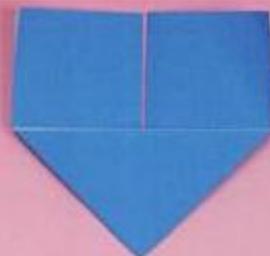
Turn over, and work the same, symmetrically.

6



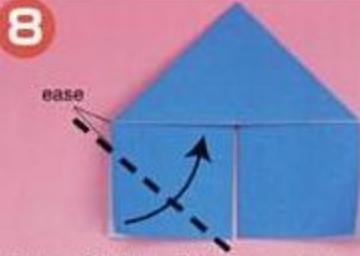
Open out.

7



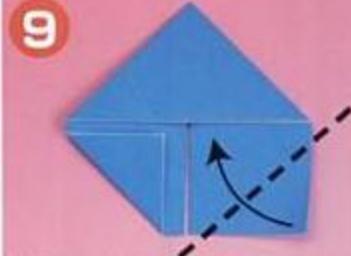
Press flat.

8



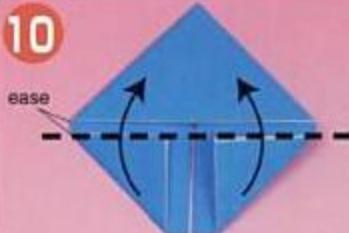
Turn upside down. Fold in one corner, not exactly in half, leaving a little space.

9



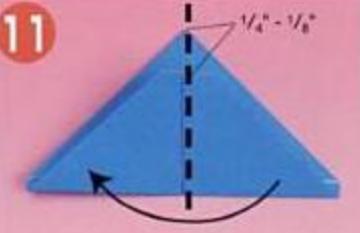
Fold the other corner in the same manner.

10



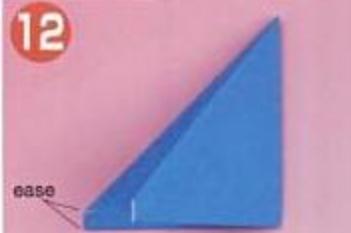
Fold up, creasing horizontally along the edges just made.

11



Fold in half.

12



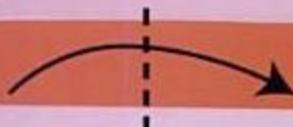
Completed triangle

We have come up with three different ways to fold the basic triangles. The triangle is made from a rectangular piece, and the ratio of its short side to long side creates a subtle difference of overall texture of the project. Find out which size of paper you have in hand before dividing it into rectangles. For cutting each type of rectangle, see page 5.

Thin rectangle

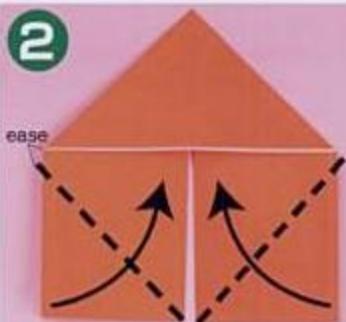
(such as $1'' \times 2\frac{1}{4}''$, $1\frac{1}{4}'' \times 3''$ or $2'' \times 4\frac{1}{4}''$ piece)

1



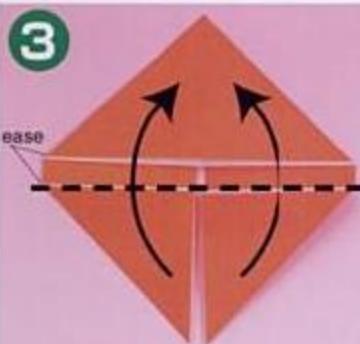
Place thin rectangle plain side up, and work in the same manner as opposite page until Step 7 is done.

2



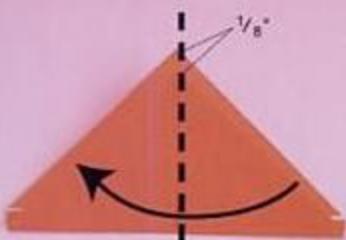
Turn upside down. Fold up corners, not exactly in half, leaving a little space above, and making pointed bottoms.

3



Fold up, creasing horizontally along the edges just made.

4



Fold in half.

5

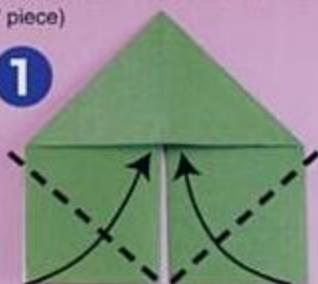


Completed triangle

Half-square rectangle

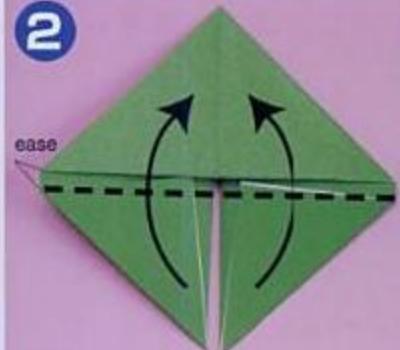
(such as $1'' \times 2''$, $1\frac{1}{8}'' \times 2\frac{1}{4}$ or $1\frac{1}{2}'' \times 3''$ piece)

1



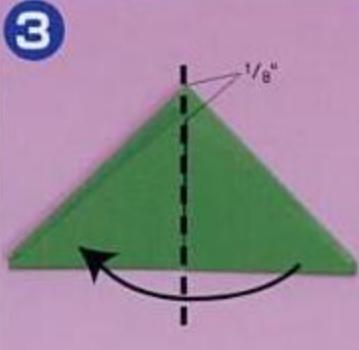
Work in the same manner as opposite page until Step 7 is done. Fold up corners diagonally, leaving a little space at sides.

2



Tuck in the tips and fold up in half.

3



Fold in half.

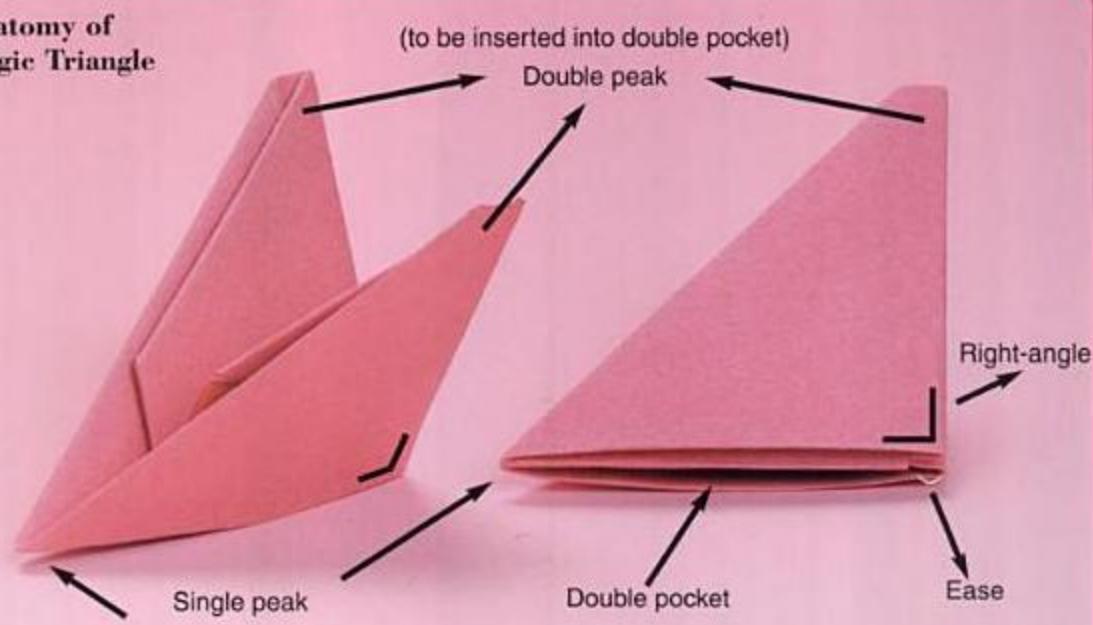
4



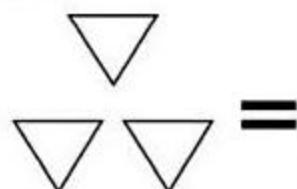
Completed triangle

The Triangle Structure and How It Works

Anatomy of Magic Triangle



Assembly

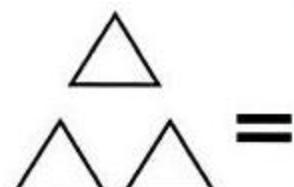


Regular assembly

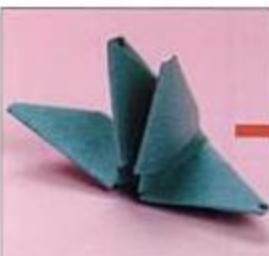


The pointed,
single peaks
show.

Holding 2 pieces, their adjacent peaks together, stack on a new piece by inserting the peaks into double pocket.



Reverse assembly

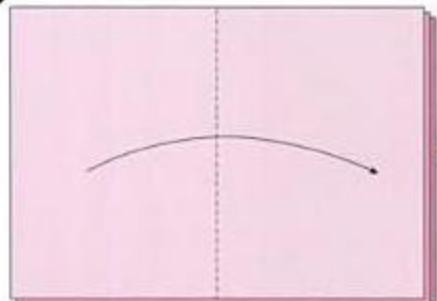


The right
angles show.

How to Cut Paper Efficiently

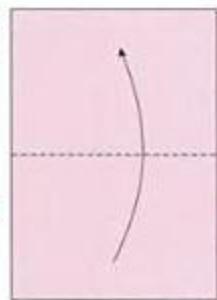
Cutting into rectangles

1



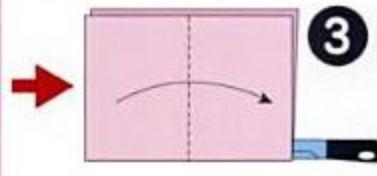
Layer several sheets of same sized paper. Fold in half and cut.

2



Fold in half again, and cut.

3



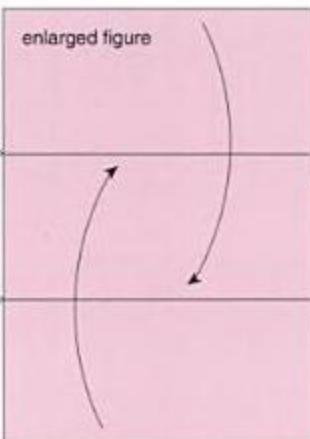
Fold in half again, and cut.

6



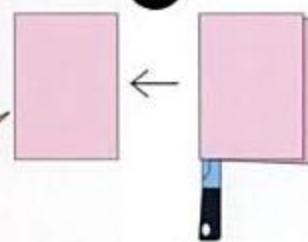
Completed rectangle

5



Fold precisely into three, and cut.

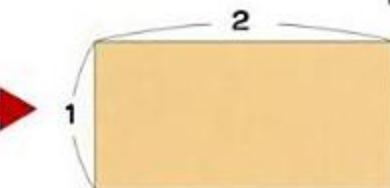
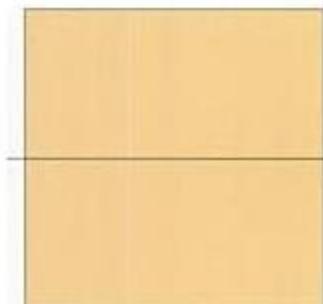
4



Now the paper is $\frac{1}{8}$ of the original size.

*This is a thin rectangle which is frequently used in this book. If resulting rectangles are "fat," fold into triangles as shown on page 2.

Using Origami



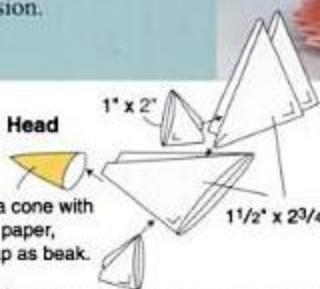
Cut origami or any square sheet of paper in half or eighths.



Beginner's guide

Chubby Chicken

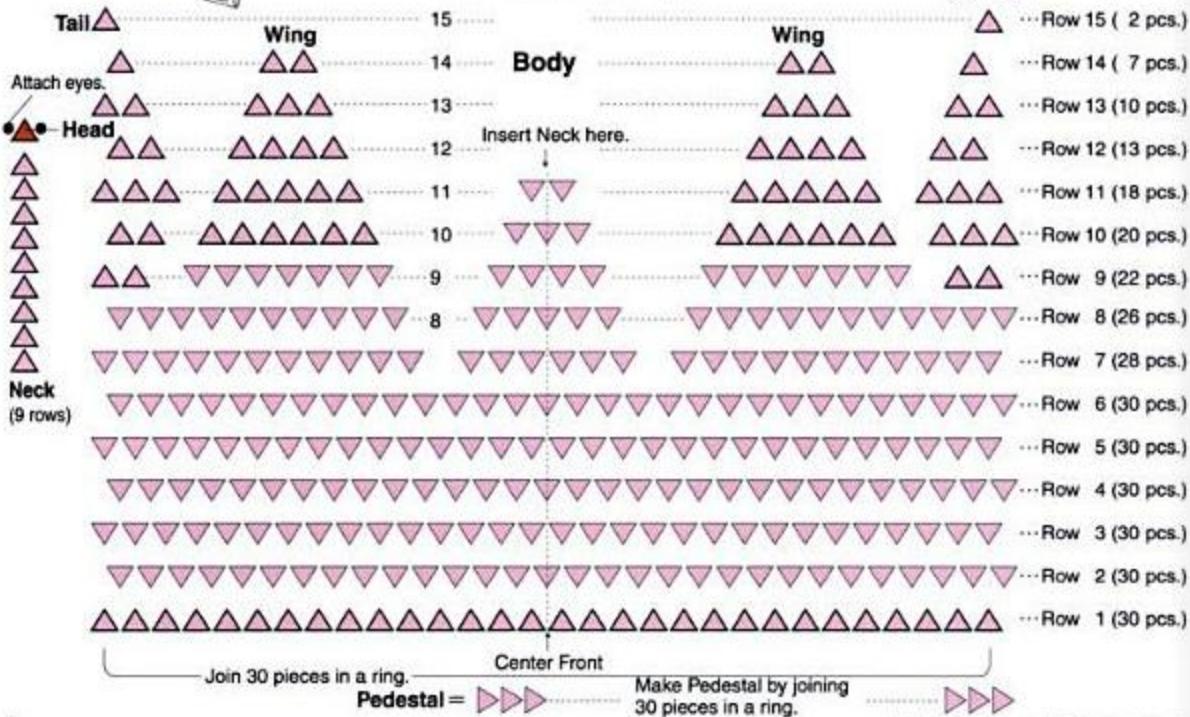
Learn how the triangular pieces are assembled together as you create a 3D chicken. A gradated paper is used here to give a soft feather-like impression.



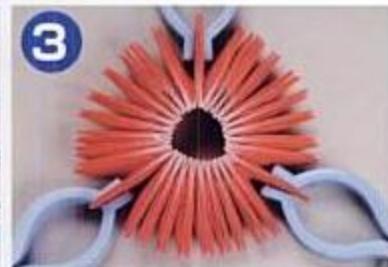
Materials per Chicken

366 1 1/2" x 2 3/4" rectangles* (gradated shade)
3 1 1/2" x 2 3/4" rectangles* (red)
2 1" x 2" rectangles* (red)
1 3/8" x 2" rectangles* (yellow)
2 1/4" plastic joggle eyes
Fold rectangles* into triangles.

▲ = red
△ = gradated shade



Chubby Chicken Assembly

**1****2****3**

Make bottom row. Simply layer 2 pieces and stick with a dab of glue applied onto one peak.

Repeat with another piece, until 5 pieces are joined. Secure with a clothespin and let dry. Make 6 units.

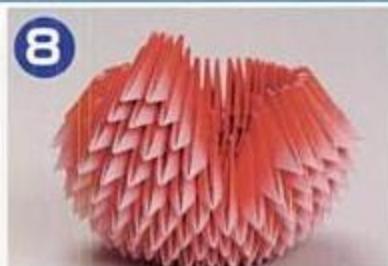
When the glue is dry, join them in the round, and secure with glue applied only to the peaks. Avoid separating glued pieces when using clothespins.

**4****5****6**

Work Row 2. Insert 2 adjacent peaks of Row 1 into double pocket of a new piece, the single peak facing out this time.

Repeat until all the peaks are covered and interlocked. The single peaks form a larger outline than Row 1.

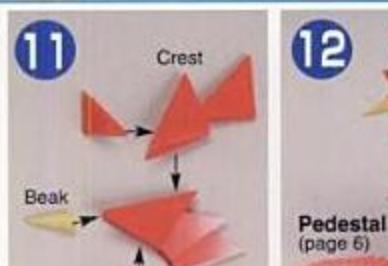
Work Row 3 to Row 6 in the same manner, always interlocking adjacent pieces of the previous row with a new piece.

**7****8****9**

Form breast. Pick center piece, and join 3 pieces each on left and right, 6 pieces in all. Continue until Rows 7 to 11 are formed, decreasing 1 piece on each row.

Make wings. Leaving 1 piece unworked on each side of the breast, join new pieces for Row 7. Work Row 8, decreasing pieces.

Make wings and tail, referring to the diagram on opposite page. For the tail, be sure to increase pieces on Rows 10 and 11, and then taper off.

**10****11**

Crest

Beak

**12**

Pedestal
(page 6)

⑪ Remove 2 top pieces off the neck. Join 1 red piece to the top to make head. Referring to opposite page, make crest and beak, and insert into the head.

⑫ Put the head back to the neck. Attach eyes. Make pedestal and place the chicken on it.

Make neck. Join 9 pieces flatways. Add to the breast, and bend into a curve to face forward.

Good Luck Objects

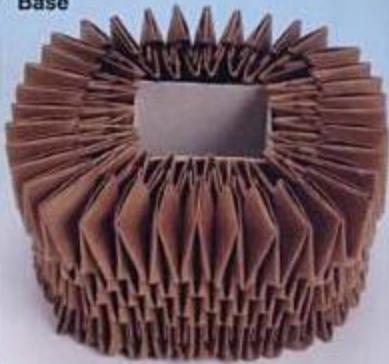
Stacking each little triangle one by one for to build a good luck ornament is like making a wish for the recipient of your gift. 3D origami projects are heavyweight and stable, not like ordinary origami projects that are destined to be thrown away. Save wrapping papers or calendars and reuse them to create a heart-warming gift.



Bottom/Middle Tier



Base



1. Three-tiered Pagoda

There had been numbers of requests to design a square-roofed pagoda like this. At first it seemed impossible with this 3D origami, but finally, by increasing pieces at four points, we made a golden pagoda with neatly interlocked roof tiles.

For instructions, see page 38.

Finished Size: 6" W x 17" H



2. Shogun Helmet

As a traditional decoration for Boys Day, this stately "metallic" helmet is a faithful copy of an antique kabuto or warrior's helmet.

For instructions, see page 42.

Finished size: 8" W x 10" H



Rear view

Hukigaeshi
(protective wing)

Shikoro
(Neck protector)

Side



3. Cherry Blossoms

Featuring a brand-new use of triangular piece, the cherry petals look plump and fluffy. The branch and petals are made of the same triangles.

For instructions, see page 50.
Finished size: 9" W x 11" H



4. Mt. Fuji

An ideal project for beginners, this snow covered mountain requires flat assembly only.

For instructions, see page 54.

Finished size: 9" W x 11" H



5. Lucky Ball

A perfect ball was another challenging shape in 3D origami. Problems were solved. Begin with four pieces and increase in every row.

For instructions, see page 41. Finished size: 5½" diameter



**more
&
more**

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