अंतराजा मी
ORIGAMI
3
संकलन: इंदु दिल्लक
The aim of this folder is to introduce 'ORIGAMI' Art to you. Origami is becoming popular all over the world. Always keep a piece of paper with you and try out different folds. Try this paper folding art and develop a fascinating hobby to derive pleasure and fun for years.

- Indu Tilak
सर्व कलाचे अधिष्ठान तू श्री गणराया गजानन।
बंदन करनी तुला, दावितो कलादर्शन जान।

निर्माता : हंदू दिनकर
by : Indu Tilak
Signs & Symbols

VALLEY FOLD

MOUNTAIN FOLD

CREASE

INSIDE VIEW

CUT

FOLD OVER & OVER

FOLD IN FRONT

FOLD BEHIND

TURN OVER

Enlarge

OPEN OUT

PUSH IN, SQUASH, SINK

FOLD UNDER

FOLD & UNFOLD TO Crease

HOLD HERE

FOLD 3 TIMES
Reverse Folds

Outside reverse fold or Hood fold

Inside reverse fold or pocket fold

You can practice Reverse Holds with a triangular piece of paper.

Hood fold

Closed side

Open side

Pocket fold

Pull out

 McMaster fold

Pull out

McLaren fold

Crease well, Fold outward

Crease well, Fold inward.

Head - If the closed side is up, the effect is good.

Foot - Stability is poor if the closed edge of the fold is downward.

Papasan fold

Papasan fold

Press fold

Crease well, Fold outward.
Symbols and Folding Techniques

Swivel
This is similar to a pleat, but instead of making a parallel fold, the second fold meets the first at the edge of the paper and then goes off at an angle.

स्केव्श
स्केव्श दो अलग महत्वपूर्ण घड़ी अर्थात् दो प्रमाण बाह्यता में या दो प्रमाण अर्थात् दो प्रमाण भाषा में भाषा दो प्रमाण के बाह्यता में भाषा दो प्रमाण के बाह्यता में

Squash Fold
Start with a Water Bomb Base
1. Make the Valley Fold indicated at the base of the flap.
2. Hold the flap upright, and squash it.
3. Squashing half done.
4. Squash Fold completed, with centre crease exactly in line.
A Rabbit's Ear procedure can be applied to any flap of paper.

1) Valley Fold.
2) Valley Fold made; unfold.
3) Valley Fold again.
4) Valley Fold made; unfold
5) Fold the flap into the crease made, and fold the point over to the left.
6) Half done.
7) Rabbit's Ear completed.

A method of pushing in a point or edge between four layers of paper. The first diagram (1) shows the instruction, when this fold is used in the creation of a particular model. This starting point is a waterbomb base. see page 22. (2) First mark the fold line by a simple valley fold and return (3) Open up the paper and flatten the point. Make the square of crease lines into mountain folds and squeezing adjacent mountain folds together, push the centre point down. The final diagram (4) shows the completed sink.
Inserting: Hold and return to original position. Then insert inside.

Curling: As a finishing touch for flower petals, animal tails, or moustaches, curling is most effective.

Pull Fold: This fold, used to make the tip part of an angle slender, is often found in tails of origami animals or in the heads of origami human figures. In some cases, the paper is pulled forward as in A and B in others the paper is tucked inward. In either case, the fold is easier to make if proper creases are made beforehand.

Pulling: Interesting effects result from pulling series of stairstep folds. A series of pocket folds produces a curved form.

Stairstep Fold: As the name indicates, the step fold is made by combining a valley and a peak fold to form a kind of pleat.

Pinch Fold: Like the pull fold, the pinch fold is used to narrow a corner, though in the latter there is no pleat or step as there is in the former. The fold is complete at step 2; depending on the nature of the paper, this fold can produce great stability. The narrow tip can, however, be folded further to produce the shape in step 3.
Basic folds

1. To divide the Paper in three equal parts.

2. Water bomb base

3. Square base, Preliminary base

4. Equilateral Triangle

5. Hexagon
Bird base

Frog base

अष्टकोण : Eight-pointed figure

पंचकोण : Pentagon
To cut rombic Paper out of square.

Branch out of right-angle tringel.
1) Divide paper into three equal parts
2) Again mark the centres of all parts.
   Fold corners as shown.
3) Fold sides as shown. Keep small square open.
4) Fold upper end down and mark the centre.
   Fold left and right ends to mark the centres.
5) Lift up the central part up as a door or bench from both the sides. Fold top flap on the side.
6) Fold side to side and divider will be ready.

**Box - 2**

1) Fold and unfold sides to the centre and mark the creases.
2) Fold opposite edges to the creases. Refold the same.
3) Fold at centre to the back side.
4) Fold at verticle centre.
5) Open out the fold and squash. Turn the model.
1. Mark the centre. Fold and unfold sides to the centre mark centres.
2. Fold and unfold sides and mark centres
3. Repeat again and fold 1/16th part.

4. Turn the model.
5. Fold side to side and crease vertical centre.
6. Fold bottom corners to centre.
7. Fold top corners to centre. Unfold and push underneath the side fold.

8) Fold left and right corners to the centre and tuck in.
Open out and shape.

6. Open out the fold and squash.
7. Join side to side from front and back to change the sides. 8) Fold corners opening out the fold from inside. Repeat behind.

Fold sides to the centre from front and back. Tuck in the top point into the pocket shown. Shape the model.

11) Open your model.
**Letter Jacket**

1. Use thick ornament paper.
2. 1 Rectangle.
3. Mark centers.
4. Fold bottom side to centre.
5. Inside reverse fold corners.
6. Fold sides to the centre.
7. Tuck in the pocket upper portion above the rectangular folds.

**Garland**

1. Use squares colourful paper 6x6 cm. Mark the diagonal centre. Fold corners to the centre.
2. Turn the model. Fold sides to the centre.
3. Join front end and top end together from backside.
4. Fold corners in. Make two units and insert one into another.
Box (can be used as lid)
1) Fold sides to the centre and crease dotted lines.
2) Make mountain folds midway between the valley quarters and the edges.
3) Fold corners to mark diagonals at the corners.
4) Fold the triangular flaps two to the left and two to the right fold corners as shown.
5) Fold the triangles to the flat sides.
6) Push in the centre and collapse upper sides down.
7) Half collapsed shape.
8) Full collapsed.
9) Pull your hands gently apart and shape the corner.

Leaf
1) Fold sides to the centre and crease dotted lines.
2) Make mountain folds midway between the valley quarters and the edges.
3) Fold corners to mark diagonals at the corners.
4) Fold the triangular flaps two to the left and two to the right fold corners as shown.
5) Fold the triangles to the flat sides.
6) Push in the centre and collapse upper sides down.
7) Half collapsed shape.
8) Full collapsed.
9) Pull your hands gently apart and shape the corner.

Use right angle triangle. Bring upper corners to bottom point. Fold and unfold sides. Openout. push in sides and shape leaf.
Use an A4 sheet of writing paper. For a photograph about 8 x 12 cm.
1) Fold the paper in half.
2) Inside reverse fold the two corners to the vertical line.
3) Fold the top point down to the line where the corners are concealed. Turn the model.

4) Lift the front edge right up.
5) squash fold the flaps.
6) Place the picture in the centre.
7) Establish the inner limits. Put the picture aside.

8) Refold top and bottom edges.
9) Refold the left and right edges.
10) Tuck the corners of the picture into the four corners pockets of the frame.

Use a right triangle triangle. This leaf is attractive and useful.
Green colour Paper
white side up. Fold square base. (Preliminary base)
1) Fold bottom point up keeping part of white space open.
2) Repeat on other three sides.
Place as shown and glue.

Grey colour paper equal in size to the largest green square.

जब रंगावता कागदत्रा चौस, हिल्ल्या रंगावता मेलका चौसस्वादु, कागदी भाँड़ा पहला.
1. जान चौसस्वादु भांड़ा,
2. चाँदी रंगावता चारी चामुंड चौसस्वादु भांडा.
3. चाँदी भांडा वर चौसस्वादु चामुंड चामुंड भांडा. चामुंडाची चांदी चामुंड भांडा, चामुंडाची चांदी बाजू चामुंड भांडा. चामुंडाची चांदी बाजू चामुंड भांडा.

खोडा Trunk

ज्ञान Tree

1) खोडा तोंक वर भेंजन पुंजा खोडा पर्यावरण, यागमांगे तित्त तित्त तित्त.
2) खोडा तोंक त्रंगा त्रंगा पर्यावरण.
3) चांदी पकडती तयार ज्ञान लहें. ज्ञान तयार चांदी भांडा. ज्ञान चांदी सवे चांदी पुंजा. एकेका एक ट्रंगा ज्ञान तयार करता.

Prepare green papers slight decreasing in size. Begin with square base.
1) Fold and unfold bottom point up.
2) Take the bottom point to the right.
3) crease firmly and mountain fold the small triangular flap in to the model. Repeat on other sides.
Greeting

4-7. Do the same. A piece of colored paper and green paper.

1-3. Divide squares as shown. Use three colored and 4 green.

Pani

4-5. Put the model together.
6-7. Turn the corner to the center twice.

2-3. Fold right corner and turn the model

4-5. Fold at the centre twice.
6) Fold the corner to the centre
7) Fold the bottom edge.

Use leaf as shown.
1) **Bench**

1. Mark centre and fold sides to the centre.
2. Mark centres of four parts.
3. Fold upper part backward.

4. Fold two corners as shown covering two
5. Fold parts at the bottom of the corners up and down.
6. Repeat for the bottom fold back.

7. Fold corners of the upper fold back.
8. Finish fold.

9) **Finished fold.**

10. Lift up two folds up folding sides downward.

11) Fold down the front plate down. Pinch corner and suck it in the pocket of back fold.
**LiFAF**

**Envelop**

1. Mark centre and fold right hand corner to the centre.
2. Fold left hand corner to the centre. Fold sides as shown.
3. Insert corners in opposite pockets.

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**Flower**

1. Fold corners.
2. Rabbit ear fold the upper layer of the folded triangle.
3. Take right half behind, leaving the flap in front.
4. Bring the top left point down on the crease.
5. Turn the structure over.
6. Make eight modules. Tuck the corner of one module into the side pocket of another. Then hold up the bottom point.
use two squares of paper. Glue back to back. Round 30x30 cm.
1) Fold a square diagonally in half.
2) Mark vertical centre.
3) Fold top corners to bottom.
4) Fold bottom points to top.
5) Fold edges outward.
6) Fold and unfold bottom.
7) Fold down upper flaps only.
8) Lift up the fold from inside and turn to right so that bottom point comes to centre.
9) Repeat on left side.
10) Fold bottom point up on dotted line.
11) Fold again.
12) Crease side corners.
13) Shape as shown.
Talking Fox:

1) Fold the paper in half, horizontally and vertically.

2) Fold adjacent corners of the square behind to the centre. Cut a hole in the opposite edge.

3) Insert the folded strip into the hole and push it inside right up to the opposite corner. Fold the two sides into the centre.

4) Fold down the top point and turn the paper over.

5) Lift the raw edges of the two little squares, flaps and squash fold.

6) Turn the structure over.

7) Handle up and down.

Leaf

Try to fold the attractive leaf with mountain and valley fold.
1) Crease both the centres and fold side to side.
2) Mountain and valley fold front layer.
3) Fold behind back flap as shown.

4) Mountain fold at diagonal line and valley fold central line. Fold in the small plate in.
5) Lift up bottom side and on dotted line squash corner. Tuck into poket behind.
**Penguin**

1. See Similar Method.
2. Fold bottom up.
3. End paper...
4. Reverse fold edges.
5. Inside reverse fold to create beak.
6. Fold down.
7. Along dotted line.

**Star**

Use a triangle.

1. Fold sides to centre.
2. Fold right bottom point on dotted line.
3. Unfold.
4. Lift top corner in.
5. Insert beneath left fold.
6. Finished fold.
7. Fold bottom end.
8. Fold on dotted line.
10. Unfold. Make 5 or 6.
11. Insert corner in and glue.
Duck

Use a rhombus made from 20 cm. square of white paper.
1) Join two corners.
2) Fold at the centre.
3) Fold and unfold the bottom edge to the centre. Open out the fold and squash. Repeat behind.
4) Fold sides to the centre from both sides.
5) Pull down the tip underneath from both the sides. Fix up the folds. Change sides.
6) Lift up the two inner points from the bottom upward by reverse fold.
7) Fold at the centre.
8) Reverse fold the upper tip and form neck.
9) Reverse fold the tip and shape head. Shape legs.
use a 30 cm square of paper.
1) Fold the paper in quarters both lengthwise and widthwise cut on the indicated lines.

The figure should look like this turn the model.

Draw lines as shown and crease.
CRAB

Open the paper out, fold on the dotted lines. This elaborate fold results in four joined crane bases.

* The crab from double crane base is much easier.
Umbrella.

Two 25 cm. squares of tough, patterned or coloured paper. One 5 cm. square of paper, sticky tape.

1) Fold one square into a preliminary base.
2) Squash fold one triangular flap to the right and repeat on the other three sides.

3) Squash fold the eight flaps again.
4) Cut all the layers just below the horizontal edge. Cut off just the tip. Repeat steps 1-4 on other 25 cm. square.

5) On one of these pleated forms only find the halfway mark and cut a slit through all the layers.

6) Open up the paper, change the creases radiating out from the slits from valley folds into mountain f’d’s and vice versa. Then raise this form. It will become the opening mechanism of the umbrella.

7) Unfold one side of the model. The hand palm faces downward.
8) When properly positioned, hold it in place by applying a little glue around the edges.

9) Inside view
10) How take a stick and seal one end with a strip of sticky tape.

11) Insert the handle through the umbrella, wrap a scrap of coloured paper around the base of the opening mechanism.

2) Take the 5 cm. square of paper and raise the four corners.

3) Fit this shape to the top, tie it in place.

The completed Japanese Umbrella.

पूंजी

Flower.

रेतित कागद १२ सेमी. चौरा कागदाची बेलकांती घडी धाव. चार बांधक बांधू मध्यांत दुधाव. देशीले टोंडे इतरांत रिहर्ते फॅल्स्की दुधाव. पावकवर्णनाचा आकार बे.

Colour paper 12 cm. square. Begin with frog base. Fold sides to the centre. Repeat all the sides. Inside reverse fold on dotted line all the tips. Open out the petals.
OWL

1) Begin with the bird base.

2) Pull the two inner points upward and flatten them to the position.

3) Khali ileas male pant prakor on position.

4) Vare ileas/apra mane nitar pue fure. Pushe esheile b aapu daaple.

5) Vare ileas kore Trey deekan ake ake.

6) Khali ileas b aapu fakat sirata thadee ileas deekan kapat ake.

Completed owl.

CAP

1) Use square paper.

2) Fold and unfold left corner to the right corner.

3) Fold and unfold left corner to centre line.

4) Fold and unfold right corner as indicated.

5) Fold left corner to join marks.

6) Fold right corner.

7) Turn the model upside down and fold flaps.

Completed CAP.
Frog

1) Start by completing the frog base.
   Take the front left flap across to the right.
   Turn the paper over and fold the front right flap across to the left.

2) Fold the lower edge of the front flaps to the centre creas. Repeat on other three sides.
3) Turn the flaps on both sides.

4) Inside reverse fold the front pair of bottom points up as far as they will.
5) Inside reverse fold the remaining pair of points out to the left and right.

6) Valley fold each of the four points to form legs.

7) Fold each of the points again, to form feet.
8) Blow into the hole at the bottom of the model and press down on the top point to raise the form of the body turn over.

9) Make the frog jump.
Use two squares 15x15 cm of brown paper Fold birdbase.

1) Fold upper flap down
2) Mark the centre of middle flap.

8) Fold up
9) Fold at the centre
3) Fold bottom flap to the middle point
4 to 7 Fold down flap in numerical order.

10) Outside reverse fold
11) Fold tip in
12 to 14 Pullout small folds one by one to give shape
15) Fold and unfold bottom end.

16) Inside reverse fold one flap up
17) Repeat inside fold again
18) Shape leg folding sides in
19) Fold other leg same way
Horse
Rear Section
मारगैल भाग

1. Mark centre of middle flap and fold top 
flap down.

2. Fold second flap to the centre of the fold.
3. Fold at the centre.
4. Turn the model. Fold and unfold flap.
5. Inside reverse fold the flap.

6. Finished figure. Repeat behind.
7. Fold in edges of front leg.
8. Repeat behind.
9. Inside reverse fold leg.

10. Refold again. Repeat for other leg.
11. Shape tail.
12. Join two parts together.

1) मान्यता मारीया मध्य काचून बरोल गवडी मध्यांगस. 
2) दुसरी बरोल गवडी. पद्धत्या मध्यांगस. 
3) मध्यांगस गवडी.

4) गवडी किरकून घ्या, गवडी दुम्पूर खीर घ्या. 
5) दुम्पूर रिलॅक्स फोल्ड. 
6) पाच्यांगणे मारगैल बालू. 
7) पुढील पाच्यांगा बालू अंतर दुम्पूर.

8) मारगैल बालू पाच्यांगणे. 
9) दुम्पूर रिलॅक्स फोल्ड. 

10) पुढील दुम्पूर रिलॅक्स फोल्ड. 
11) शेवढील जलसार चा. 
12) दोहोरे माणा जोडून घेऊन तयार करा.
Giraffe

1. Begin with birdbase 25 to 30 cm. square.
2. Fold front and back right side flaps to left.
3. Outside reverse fold the top layer only.
4. Openout the fold.
5. Fold on dotted lines.

5. Tuck in lower flaps and fold top corners.
6. Fold at centre.
7. Reverse fold left hand flap.
8. Fold edges to shape leg. Reverse fold top end.
9. Shape head.

10. Crimp at the bottom of neck to give forward bend.
Kettle

1) Fold and unfold the top point.
2) Sink in the top point. (page 5)
3) Lift up the front flap.
4) Inside reverse fold the top points on dotted lines.
5) Fold into the sides of the right hand fold.
6) Fold the tip of the left hand side.
7) Fold side of left hand to give shape and close the fold.
8) Lattep the bottom flap and insert the tip as shown.

Flapping Pigeon

1) Begin with water bomb Fold left flap to right hand.
2) Fold and unfold side to side and crease centre.
3) Lift up the bottom side.
4) Squash and join side to side.
5) Repeat same on other side.
6) Resulting fold.
7) Fold left hand end and openout told.
8) Open the fold squash at the bottom.
9) Fold again.
10) Shape beak.
Enjoy flapping action.
1) Begin with bird base
2) Hold two ends in finger tips and pull out on both sides.

3) Fold lower corner in on dotted line. Repeat behind.

Head section:
Left up bottom points up to left and right.
Fold sides from front and back side. Fold top flap to central line. Fold model at the centre. Lift top point up.
Shape head.
Flower Basket

1) Begin with bird base.
2) Lift up bottom points as head section.
3) Fold corners and top flap.
4) Fold model at the centre.

Shape legs and tail. Join two parts together.

1) एका बाबूँचे वरील टोक आला दुमाला.
2) दुसऱ्या बाबूँचे वरील टोक पहिल्या घरीव्या टेस्काच्या आंत अवलंबून जकऱ्या तर फिक्तेया.

3) Fold one upper tip inside
4) Tuck in the upper tip of the other side

1) बाजु पुन्हे घर्यात मध्यांदृत दुमाला.
5) Fold sides to the centre. Repeat behind.

6) फूलची काही सदहेरे केला तर कुटुंब.
1) Begin with the bird base
2) Fold side

3) Lift up central part to fold legs.
4) Repeat the same for other leg.

5) Fold sides to the centre.
6) Turn the model.
Peacock

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11) क्रिम्प फोल्ड खालु तरीका अभाषित अभाषित.
Crimp fold as shown.

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12) दोबोल टोक रिक्रस फोल्डने खाली ध्या मानेला व पारंपरिक अंकार अंकार.

Inside reverse fold the front end to shape neck.
shape neck and legs.
Use 3-4 colours. 60 squares of 12x12 cms.
Begin with waterbomb base.
1) Fold to the left.
2) Fold the upper layer up to the line.
3) Unfold.

4) Open the inside and squash.
5) Fold to the right.
6) Fold other two flaps in the same way.

7) Fold all to the left.
8) Fold up to the line.
9) Fold only two layers to the right.
10) Fold up to the line.

11) Fold only the upper layer to the left.
12) Fold the point upward.
13) Fold the other point upward.
15) Fold the marked parts backward so that the edges meet on the center line.

18) Fold the other corners except the corner marked.

पाँच पाकवाध एकांण एक विकटकुल्न भूष तयार करावे.
Cut 20 squares of different color, 14x14 cm.

1) Keep colour side up crease centres. Fold three corners to centre from front side and fold one corner back.
2) Fold edge of triangle to side twice. Repeat to other two corners.
3) Join two corners and glue to from triangular shape.
4) Finished shape.
5) Join five shapes together. Always see that every corner is with five triangles.