Origami Omnibus
Paper-folding for Everybody

Kunihiko Kasahara

Japan Publications, Inc.
Dove of Peace (p. 362)
Rose (p. 338)

Panorama Box with Four-season Scenes, developed one after the other, beginning on the next page.
A Paper Wonderland

Boundless fantasy from a single, small sheet of paper. This is the pleasure and the miracle of the envelope wonderland.
Five eight small cubes from a single large one.
The Fun of Geometric Forms

The day when origami will be a highly valued educational tool in the mathematics classroom is just around the corner. I am delighted by anticipating its arrival.
6-Cluster Decorative Sphere (p. 29)
Cube with a Petrol Face (p. 88)
Cube with a Panda Face (p. 67)
Rhombicuboctahedron (p. 221)
Dodecahedron (p. 64)
Frog (p. 254)
Frog Mobile (p. 200)

Reversing and assembling 3 of the 8 small cubes create a beautiful geometric solid, or polyhedron. The complete development appears on the next page.
Three developed polyhedrons are arranged to suggest a range of mountains. The remaining 5 compose seasonal scenes of 1—counterclockwise—spring, summer (early and full), autumn, and winter.
New Materials
In this scientific age, new materials are constantly being created and marketed. These works make use of extremely popular plastic films and foil papers.
Chapter 3  Fly Crane
Fly  12

Chapter 4  Starting Up

Chapter 5  Beauforts
Proceedings  199
Introduction
The Future of a New Origami
Various ways to fold a square in half
Koji Fushimi *tato* (variant fold)
Ornament by Robert Neal
Symbols and Folding Techniques
Chapter 1

Expressions Unlimited
Masks for All Seasons

Grinning Old Man
Celestial General
Demon Mask
Tengu Mask
Monster from the Arabian Nights
Singer of Antiwar Songs
Kamui Mask
Lion (Male) Mane
Gonilla
A New Path

The world is vast and filled with mysteries waiting to be explored. Each step forward is a new journey, a chance to discover something new. It's easy to get lost in the chaos, to feel overwhelmed by the endless possibilities. But what if... what if you could find a new path, a way to navigate this world in a way that was truly your own?

Rouge container
The Assembly Technique

Traditional masterpieces that actually work in amusing ways.
Jumbo and spinning top
Solid Forms Made Easy

Unit origami - cube
four variations
More Than Expected

[Diagram of a dice (2-unit assembly)]
Cube with a Pierrot Face
Cube with a Panda Face

Pierrot face

Panda face
Various rectangles
Producing Major Paper Shapes
Origami triangular measure

Folding for angles of 30 and 60 degrees
The Golden Rectangle

Folding the Golden Rectangle
Approximate folding of a regular pentagon
Regular-pentagonal Knot
The Importance of Perceiving

Here we see how perception is fundamental in our understanding of the world. It is through our perceptions that we interpret and make sense of the information we receive. Perception involves the process of selecting, organizing, and interpreting sensory information from the environment. This selection and processing are influenced by our expectations, experiences, and biases. Therefore, understanding the nature and limitations of perception is crucial for developing effective strategies in various fields, such as psychology, philosophy, and education.
some we dissolve or in a rock such
as ingredients or in a power
yet so I hope it will be a
we will not be over as
we live.

the

only

and

in

in
Skeleton Structures of Regular Polyhedrons

Skeleton of a regular tetrahedron

Skeleton of a regular octahedron

Skeleton of a hexahedron
Skeleton of a regular dodecahedron

Skeleton of a regular icosahedron
Several Beautiful Containers
Form Variation
Odd-number Even Divisions
Simplified way of making divisions
Applying Five-part Equal Folding. Two Solid Figures

Traditional menko

Solid figure 1
Meaning of the Origami Bases
The Mackawa theory

Application of the Mackawa theory
Tyrannosaurus—
Application of the Maekawa Theory
Iso-area Folding
(The Kawasaki Theory)

Square flat unit
(iso-area folding)
Puzzle Cube I

Right-triangular Flat Unit
A Convenient Rectangle

Five-pointed star
Puzzle cube (one rectangular sheet)
Puzzle Cube II
Two-tone treatment
Cube D  Bisecting on the diagonal
Lids for Elements

Rectangular lid for cube $D$

Square lid for cube $C$
Handmade teaching materials
Rhombic lid for Cube F

This is the diagram of the rhombic lid for Cube F.
Building-block Bisection
Making a Cube from a Cube with a Single Cut
Fly, Crane, Fly!

Chapter 3
Challenging the Eternally Fascinating Origami Crane

Challenge 1
Challenge II
New Enthusiasm

Challenge III
Challenging the Challengers

Flying crane No. 1
My Flying Crane
Flying White Heron
Crane in flight
Variations on the Flying White Heron
El Condor Pasa
The Condor Passes
Chapter 4

Starting the Animals
Koala

Animals are an ever-present influence transcending all time and majesty. Our land and history are shaped by them. This chapter shows how they have been resident in many of our animals for thousands of years.

The animals' adaptations to life on land and their unique characteristics are portrayed in ways that are familiar to us.
The Smart Way to Read the Chart: Stay One Step Ahead

Persian Cat
Llama

Llama is an animal of the Andes Mountains of South America. The multiple layers make the llama's fur somewhat thick and sturdy to keep it warm.
Beagle
Mother-and-child Monkeys
Donkey
Dragon
The Lost World of the Dinosaurs

Dimetrodon
Tyrannosaurus Head

Tyrannosaurus is intended to be a fierce carnivore. Although they are not as large as some other dinosaurs, they were still formidable predators. The head opens and closes as seen in the diagram below.
Brontosaurus
Mammoth
Introduction to a New World

Getting to know a number of people including Mr. and Mrs. Terada, Mrs. Kofu, and Mrs. Masayama, I have taken part of my time to explore ways of life. I've been challenged by the diversity of cultures and have learned to appreciate the unique aspects of each society. These interactions have broadened my perspective and have given me a deeper understanding of the world.

Fox Mobile

[Diagram of a fox mobile]
Bottomless Tetrahedron and an Equilateral-triangular Flat Unit

Equilateral-triangular pyramid
(or a bottomless tetrahedron)
Equilateral triangular Flat Unit II

Equilateral-triangular Unit
Five regular polyhedrons
Square Flat Unit

Two Square Flat Units
Module Cube

Dice units
Cherry-blossom Unit

Though widely used because of
their beauty, cherry blossoms
are also known for their
short blooming season. They
don't last long, but their
short but intense period
of bloom is a wonder.
This unit will be an
temporary and
enjoyable experience.

[Diagram of cherry blossoms and petals]
Star-within-a-star
Unit
Combining the Cube and the Regular Octahedron

As an example, consider taking a cube and a regular octahedron and combining them to create a new shape with a unique structure.
Union of Two Regular Tetrahedrons Kepler's Star
Spirals

Object d'Art

Univalve Shell
Regular pentagonal Flat Unit
From Regular to Semiregular Polyhedrons

Complete team of regular polyhedrons
Six semi-regular polyhedrons produced with units already introduced.
Lengths of Sides
Regular-hexagonal Flat Unit

Now that we have seen all the possible regular polygons, let us turn to the equilateral triangle. A triangle is a polygon with three sides and three angles. It is the simplest polygon in terms of the number of sides and angles.

The equilateral triangle is a special type of triangle where all three sides are equal in length. It is also an isosceles triangle, with two sides equal and the third side of a different length. The angles opposite the equal sides are also equal, each being 60 degrees. The sum of the internal angles of a triangle is always 180 degrees.

In a regular-hexagonal Flat Unit, the equilateral triangle is used as a basic building block. The hexagonal Flat Unit can be constructed by arranging these triangles in a regular pattern, creating a flat, two-dimensional structure.
Three more senuregular polyhedrons became possible.
Decagonal Flat Unit
Two new semiregular polyhedrons.
Regular-octagonal Flat Unit

The regular-octagonal flat unit is...
The final semiregular polyhedron
Variant version of the Regular pentagonal Flat Uni
The Inexhaustible Fascination of Polyhedrons
The Reversible Stellate Icosahedron

Regular pyramid for the regular icosahedron
The Reversible Stellate Regular Dodecahedron

Pentagonal-pyramidal compound unit
Two stellated dodecahedrons.
Greater and Lesser Stellate Dodecahedrons
Stellate Regular Octahedron

By now we have produced all ten of the star polyhedrons. Plus come two later versions in two with the largest number of axes. Now we shall move to the remaining three by beginning with the easiest. They all occur in pairs with each other. Oddly, no shot shows any to have made out very similar.
Assembling the regular octahedron
Toy puzzle
Stellate Square

The painting on the right is he
art in 24s immediate before
assembly into... The painting on
the site and square appears to...
24. Actually as was the case with
the when the time there have
been the detail about its appropriateness.
The cube is yet

Cube pyramid

248
Chapter 6

Viva Origami
Doubling the Pleasure

Water-lily Pad
The Ambitious Frog

As you will see, the frog is very ambitious. It wants to reach a higher platform than the one it currently occupies.

Tadpole
My Favorite Fox

This old has already appeared in chapter 4, p. 149. It is a fox having some
innate dignity. Its head is large and Nordic in shape, and its body
is covered with a soft, thick coat. It is a very intelligent animal,
and it is known for its keen senses and strong hunting abilities.

[Diagrams of a fox and its features]

[Diagram of a fox's face with various measurements and labels, indicating its size and features.
The diagrams show the fox's head, body, and various parts in detail.]
Cicada
Hopping Grasshopper
Carp
Tropical Fish
Hermit Crab
Univalve Shell
By the sea, by the sea,
by the beautiful sea
Bivalve Shell
Seaweeds
Sea Anemones
Blintz fold

The perfectly fitting lid
Improvements on Traditional Works

Decorative Lid
Cube Box
Four-dimensional (?) Box
Hard-cover Book with Case
Bookcase
Furnishings made from traditional folds
Tricorn Hat and Tree 1
Trees II and III
For the Sake of the Numbers

Tree IV

Tree V

Tree VI
Long rectangular box
Church
Learning from others
Why the design is high-class?
House (rectangular box)
Which House Is More Spacious?
Two new rectangular lids
Our Town

House A
with a window

House B
with an entrance

House C
with a window
and an entrance
Fascinating Origami Aircraft

Hang-glider 1
Hang-glider II
Pinwheel
Mr Chino's Sense of Humor

Eye
Lips
Mustache

Eyebrow
Witch Claws
Nose
Pinocchio Nose (or Bird Beak)
Cattleya
Rose
Sparrow
Duck
Swallow
Cormorant with Outstretched Wings
Swan
The Simple Splendor of Symbolic Forms

Swan II
Peacock
Chicken
Fluttering Pheasant
Dove of Peace
Angel
Pinocchio Mask
Adam and Eve
Appendix

Product on Guide to the Panorama Cubes
The combinations of the cube and the regular tetrahedron.
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