

Y C O U R S E
F U N
M A T H S
G E O M E T R Y
P O L Y H E D R O N S W I T H
O R I G A M I



Learn how to make step by step the main 3D geometric figures with origami in 7 videos.

An EXCLUSIVE and UNIQUE new way of learning that only takes place in some schools in Japan.



FUN MATHS / Geometry
Polyhedrons with origami

First edition: February 2021

©Sonia G Caballero | S G C 2021
<https://www.soniagcaballero.com>
contac@soniagcaballero.com

All rights reserved. Except as otherwise provided by law, this work may not be reproduced in whole or in part, or incorporated into a computer system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording or otherwise) without the prior written permission of the copyright holders. Infringement of such rights is punishable by law and may constitute an intellectual property offense.

Please contact <https://www.soniagcaballero.com> contac@soniagcaballero.com if you need any excerpts from this work.

©Sonia G Caballero | S G C 2021

FUN MATHS

GEOMETRY/ POLYHEDRONS WITH ORIGAMI

A practical way of using origami to learn mathematics in a fun and playful way is carried out in some schools in Japan, where children learn the main geometric polyhedral figures with origami. The children, after making all the figures and creating all those new brain connections, can spend hours building many more figures from those basic patterns as they contain the five Platonic solids, considered the geometric bodies applied to Architecture. The teaching and learning process begins with an introduction to form and three-dimensional space, the basis of which is geometry and the primary forms as the structure of nature common to all things in the universe.

In the Course of FUN MATHS/ Geometry/ Polyhedrons with Origami all these basic figures are collected. It is a new way of learning that gives very good results and helps to develop and create new talents. It is a privilege to have access to something so exclusive and unique that is only developed in some schools in Japan.

NASA uses Origami/Papiroflexia to tackle mathematical challenges on some occasions. The Japanese tradition of paper folding, has taken on a new dimension inspiring a series of space designs at NASA's Jet Propulsion Laboratory (PLCaltech, 2017).

Not only from a mathematical point of view, origami boosts creativity, in addition, it helps to create new patterns in the brain, develops a sense of order. It also serves us to exercise concentration, since one must pay attention to follow the steps and not get lost.

People who have followed individual or group origami therapies have not only benefited clearly in the physical or cognitive aspect, but also in the emotional, since this art requires high doses of patience and perseverance, and as progress eventually appears, it is pleasantly satisfying. The folding process becomes a moment of tranquility, isolation, concentration and relaxation, which reduces stress and anxiety. Also, completing a creative project improves personal satisfaction and self-esteem.

In terms of visual impact, trying to visualize the figures and remembering the images of the steps to be performed stimulates people with visual impairments and visual sequential

memory or visual attention problems. It also improves spatial memory, orientation and the ability to recognize the shapes of flat figures and 3D figures.

It has been shown that the development of cognitive abilities is linked to the psychomotor development of the person, so it is not surprising that origami helps to improve memory, perception and attention. (E. Tramuns, 2017).

OTROS PROYECTOS INTERESANTES DE LA AUTORA



The book “101 CREATIVE PROJECTS. Vol. I “

Download a free PDF of the first pages here <https://www.soniagcaballero.com/japanese-art-and-culture-for-children-vol-i/>

“...sharing the experience of teaching ART in JAPAN in the Montessori School...”

This book includes some of my best classes, selecting a series of projects whereby the child can develop his or her

own creativity.

Dealing with aspects of a Millennial Culture, a language which is full of details as well as the Zen philosophy of life”.

Sonia G Caballero

Japanese Art and Culture to Children by Sonia G Caballero, is a multi-faceted book that contains both art pedagogy, a catalogue of her own work, and artistic literature on Japanese art and customs. A beautiful and careful volume, which promises not to be the last, and which in my opinion will be fruitful and useful, not only for children but also for older adults."

Foreword by Joan Abelló Juanpere

Historian and Art Critic.

AVAILABLE AT

The website of Sonia G Caballero / Editorial :

QR <https://www.soniagcaballero.com/producto/japanese-art-and-culture-for-children-vol-i/>

COMING SOON

“101 CREATIVE PROJECTS. Vol. I | Vol. II “

And more courses...

You can share all your coursework and book works “101 CREATIVE PROJECTS. Vol. I “ in the Facebook group created expressly for this purpose. : <https://www.facebook.com/groups/JapaneseArtandCultureforChildrenbook>





SONIA G CABALLERO

S G C

Sonia G Caballero, artist, designer, creator and entrepreneur was born in Madrid in 1976. With more than 20 years living in Japan, her works carry a stamp, both personal and universal, with a clear influence of Japanese art and culture, combining visual techniques of Western and Oriental art. Her compositions include bright colors combined with precious metals such as GOLD, PLATINUM, SILVER....

In 2014 she exhibited at the Embassy of Spain in Tokyo on the 400th anniversary of Spanish-Japanese relations, being an artist representative, among others, of the fusion of both countries.

In 2015 she began a new facet as a pedagogue in the field of arts teaching art classes to children from 3 to 12 years old, at the Japan Montessori School in Yokohama.

In 2017 she launched her High Jewelry range "DESEOS" in collaboration with the prestigious firm Ernest Oriol Joyeros in Barcelona.

In September 2019 held its 5th Exhibition at the 30th anniversary of Bunkamura, Tokyo with an influx of over 4,000 in one week.

In 2019, she delivered to the Government of the United Arab Emirates his Work "The Year of Tolerance", a work that currently remains in that country....

In 2020, she published his first book " Bringing JAPANESE ART and CULTURE to CHILDREN. Vol.I", where he collects part of the art projects taught in the Montessori school in Japan.

In 2021 she published her book KAWA 川, where she presents a series of concepts of art and culture of the Nippon country, some of these concepts unpublished outside Japan and that the author presents for the first time in her book with some personal anecdotes.

<https://www.soniagcaballero.com>

contact@soniagcaballero.com



BIBLIOGRAPHY

Tramuns, Buena salud con dobleces, en el número 423 de Muy Interesante. <https://templodelegias.com/2016/11/13/las-grullas-japonesas-aves-colosales/><http://www.aikidopalma.com/?p=349>

PL-Caltech, 2017. Europa Press. 2017. <https://www.europapress.es/ciencia/misiones-espaciales/noticia-origami-inspira-nasa-afrontar-desafio-matematico-20170925140328.html>