



OriNidaZoom

Incontri online sulla didattica con l'origami

IL FLEXICUBO

di Francesco Decio e Stefania Serre

IL FLEXICUBO



IL FLEXICUBO di Luisa Canovi



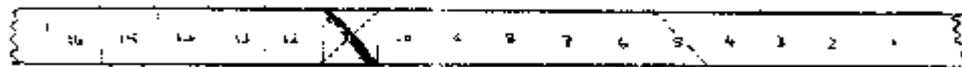
edizioni La casa, settembre 1987, Copyright Silvano Pizzighella

IL FLEXICUBO di Philip Noble (1971)

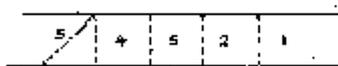
FLEXICUBE BY PHILIP NOBLE

ART I: The basic cube

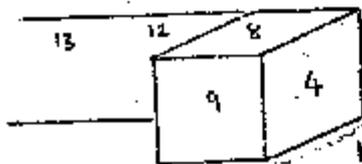
① Start with a length of paper 16x1 (computer paper tape is ideal), and number off squares as shown. Lightly shade one side. Crease the square boundaries and diagonals on 5 and 11.



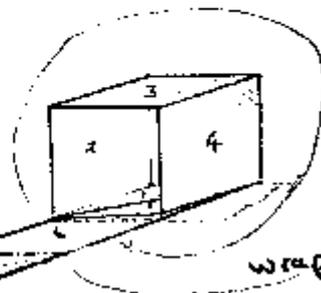
② Form a hollow cube. The valley folds are 90° , the mountain is 180° .



③ 90° mountain fold all inter-square boundaries from 5/6 (180°) to 10/11 and form diagonal in 11.

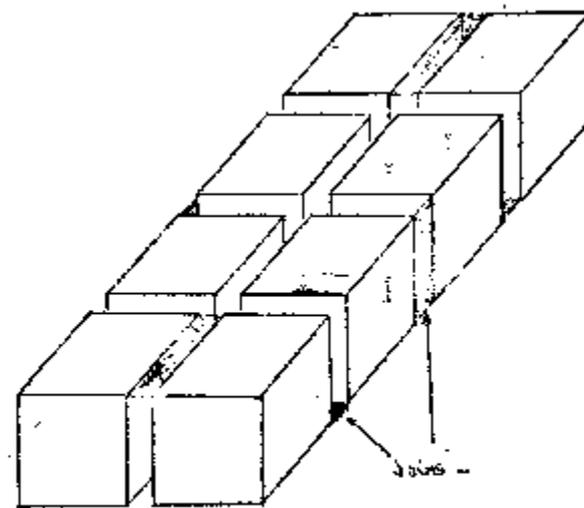


wrap around



wrap around

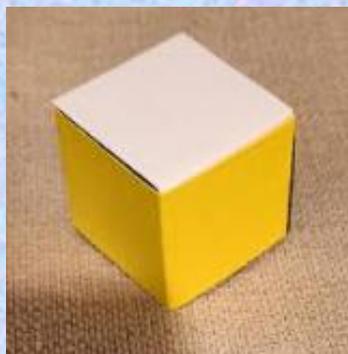
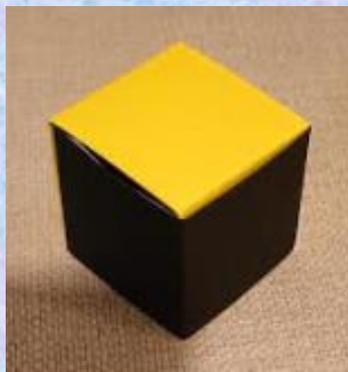
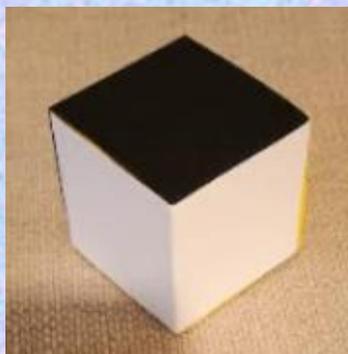
Cubo infinito



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DESIGNED
BY
1971

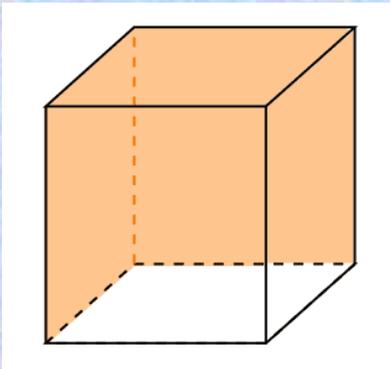
EXPLODED DIAGRAMS

IL FLEXICUBO di Francesco Decio



IL CUBETTO di Francesco Decio

Facce adiacenti



<http://www.youmath.it>

Segmenti adiacenti

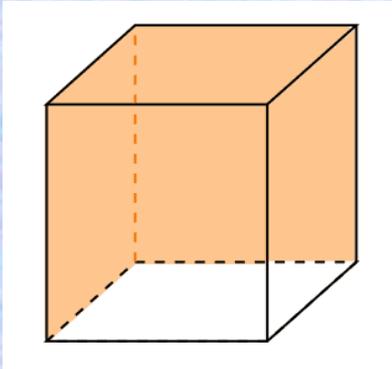
Angoli adiacenti

Angoli diedri

IL CUBETTO di **Francesco Decio**

Pieghiamo il cubetto!!

IL CUBETTO di Francesco Decio



<http://www.youmath.it>

Facce adiacenti: tre coppie

GEOMETRIA

I tre spigoli comuni alle coppie di facce adiacenti sono tra loro sghembi

COMBINATORIA

Quante coppie di spigoli nel cubo?

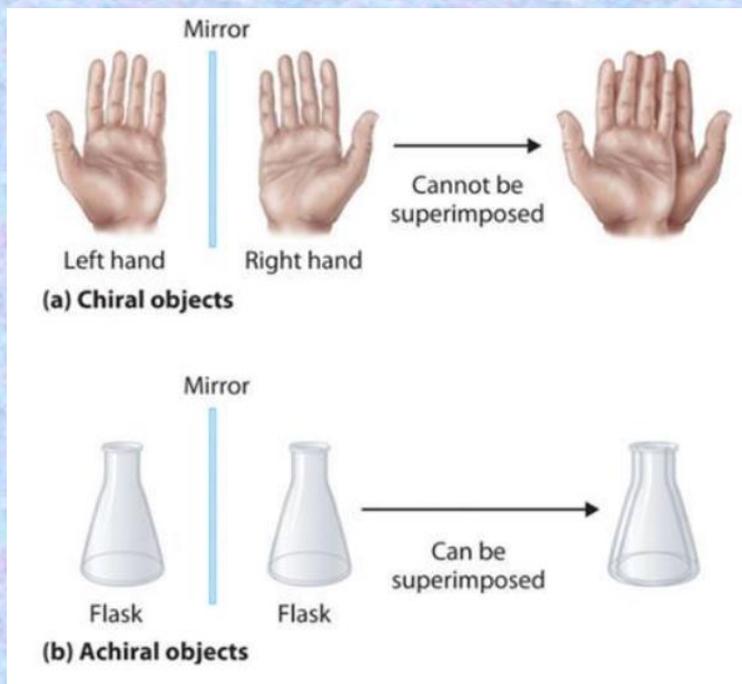
Quante coppie di spigoli SGHEMBI nel cubo?

Quante coppie di spigoli PARALLELI nel cubo?

Quante coppie di spigoli PERPENDICOLARI nel cubo?

IL FLEXICUBO di Francesco Decio

CHIRALITA'



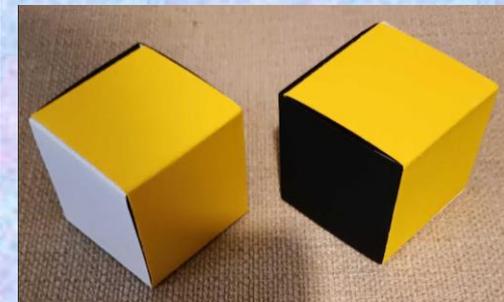
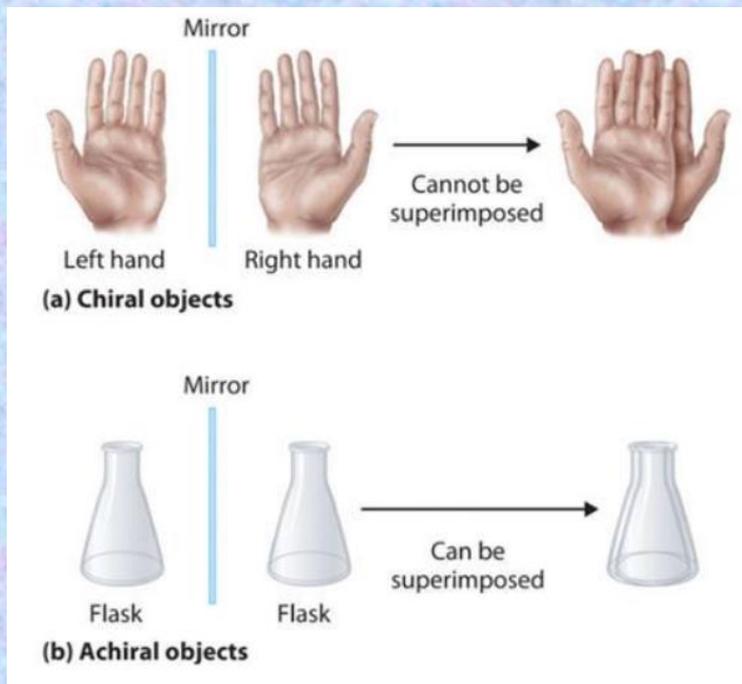
www.competenzamatematica.it



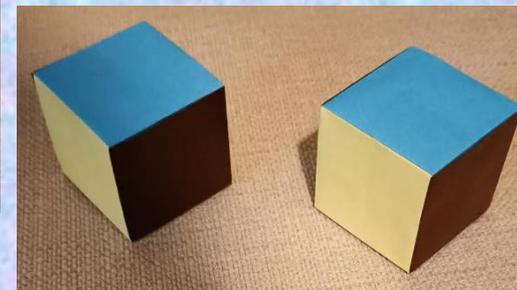
IL FLEXICUBO di Francesco Decio

CHIRALITA'

Cubetto di Francesco Decio

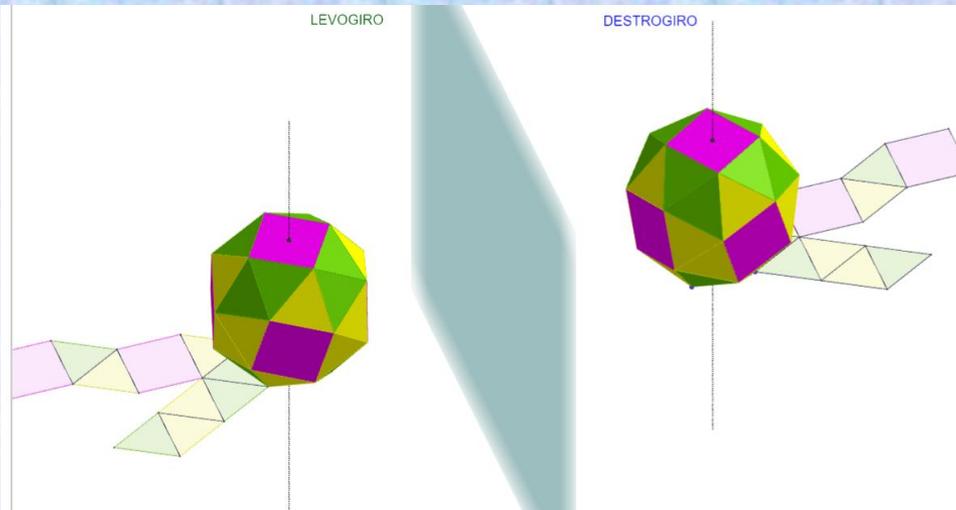


Cubetto di Luisa Canovi



IL FLEXICUBO di Francesco Decio

CHIRALITA'



Ennio Bolzonella

Cubottaedro camuso
Cubo simo



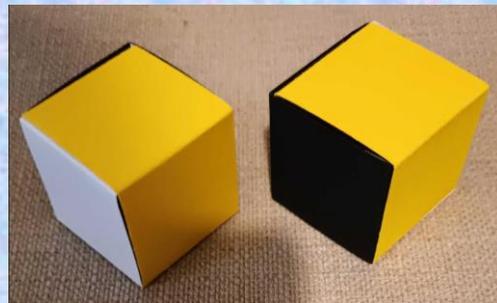
Cubetto di Francesco Decio

IL FLEXICUBO di Francesco Decio

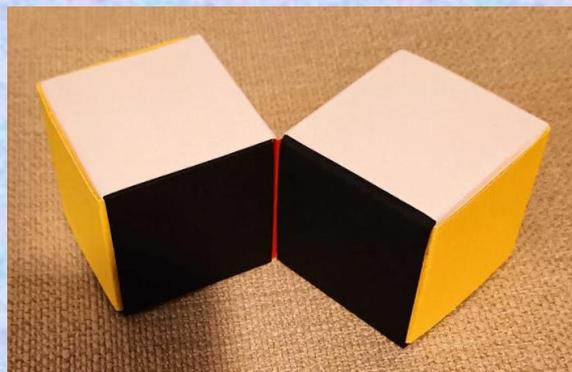
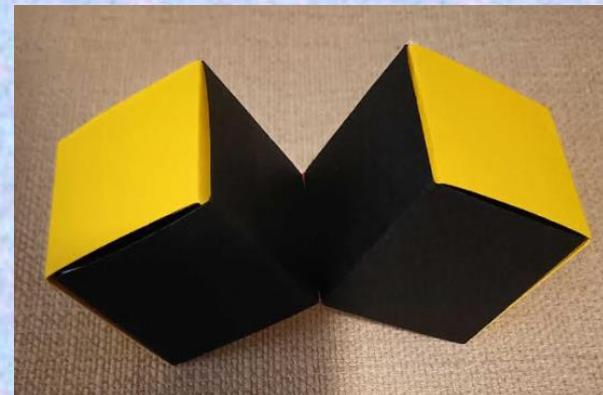
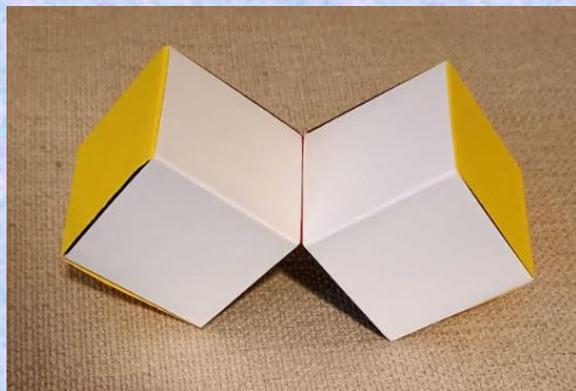
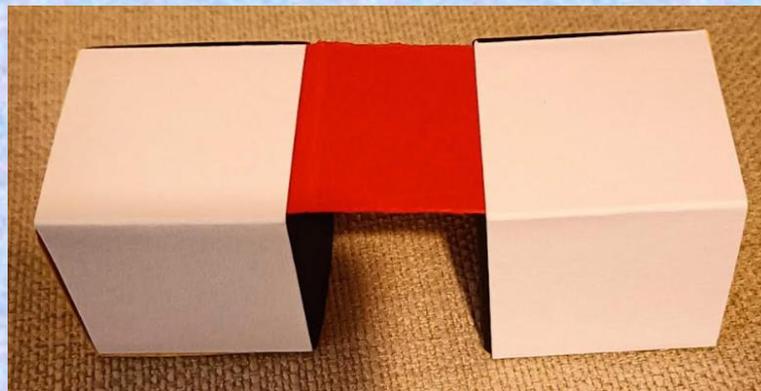
CHIRALITA'



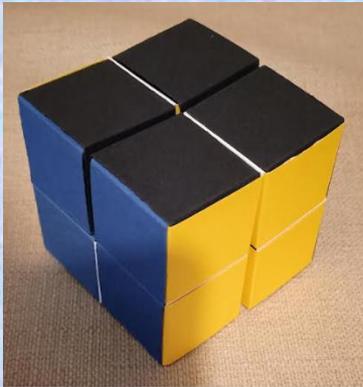
Pieghiamo il cubetto
chirale!!



IL FLEXICUBO di Francesco Decio



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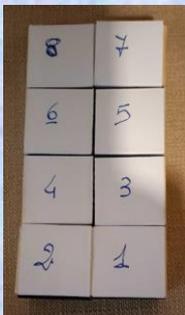


Rapporti tra volumi di cubi, lunghezza spigoli, aree facce,

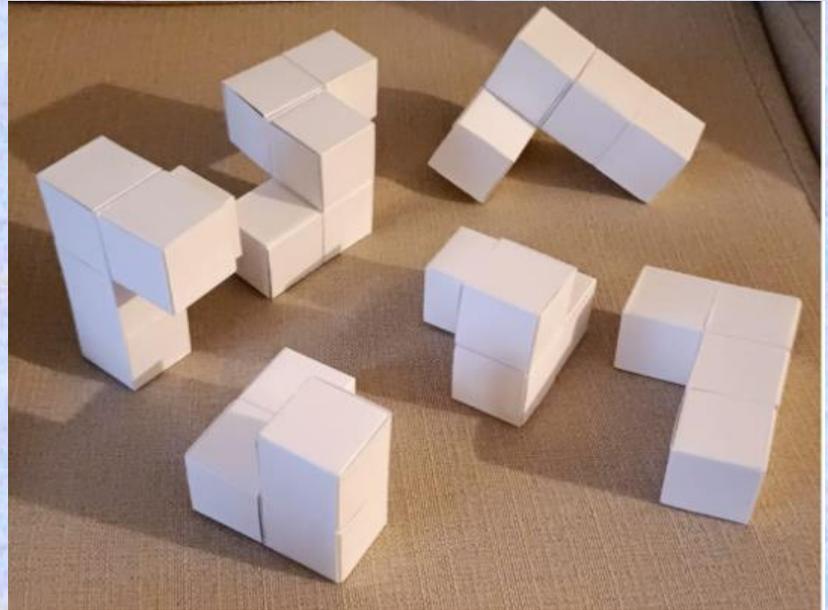
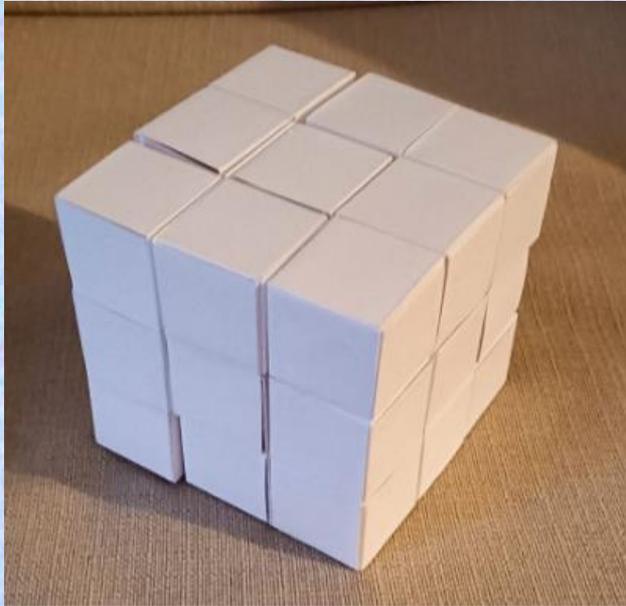


Quante facce ha il flexicubo?

E se proviamo a numerare i cubetti...

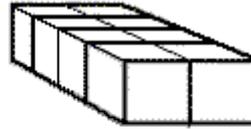


Il Cubo di Steinhaus



IL FLEXICUBO di Francesco Decio

CONGRATULATIONS



Make many of them and make many people happy
or even better, teach them how to do it.

Thoki Yenn

Grazie per aver piegato, giocato e
ragionato insieme a noi!

Francesca e Stefania

origamiedidattica@origami-cdo.it

