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Slide Solids

Templates and instructions for geometric paper constructions made from triangles and squares

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PRINT SETTINGS

Please use Acrobat Reader to print and make sure that the settings 'Actual size' and 'Auto portrait/landscape' are selected.

SAVE PAPER & TONER

Only print out the pages you need.

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HOW TO DO IT

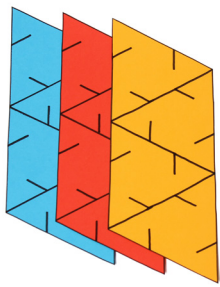
Construction With Triangles

Diameter: Small 4,7 inches (12 cm), Large 8,6 inches (22 cm)

INSTRUCTIONS

1. The printed side should either always face inwards or always face outwards.
2. In each triangle two differently colored triangles should be slid into.
3. Every star-shaped, five-piece section consists of 5 differently colored triangles.
4. The tips of the triangles should always point outwards.

①



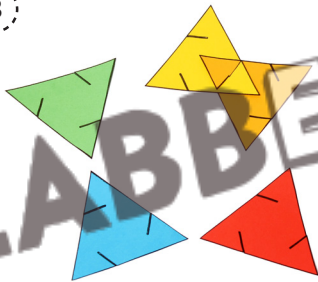
②



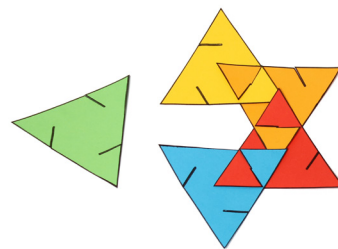
Small triangles: Print five copies of the template on different colored paper. Large triangles: Print ten copies of the template on heavy printing paper. Cut out the pieces and cut in the slots along the solid lines.

Arrange one triangle of each color in a circle.

③



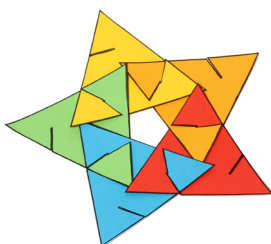
④



Slide the first two pieces into each other. The tips of the triangles remain visible at the top.

Do the same thing with all of the other triangles...

⑤



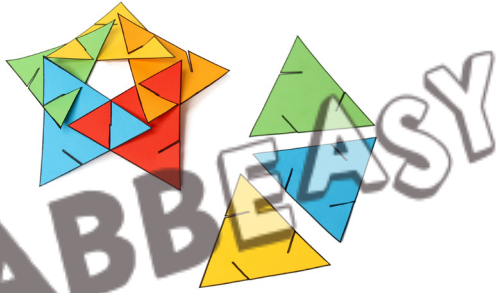
⑥



... until you've closed the circle to form a star.

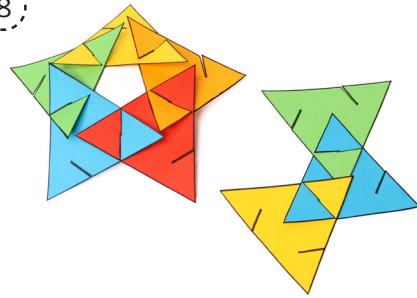
Lift the star a little in the middle so that it bulges upward.

7



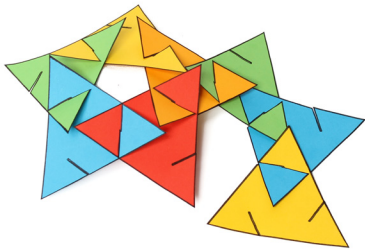
Take a yellow, blue, and green triangle.

8



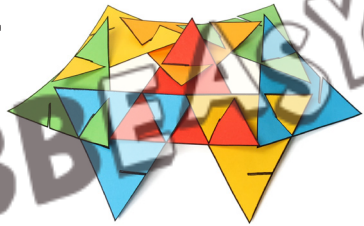
Slide these three triangles together.

9



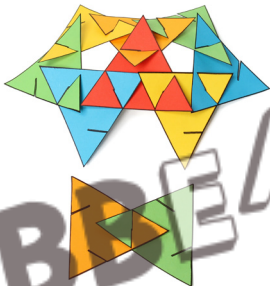
Connect the green triangle to the orange triangle, and then connect the yellow triangle to the red triangle, creating a second star.

10



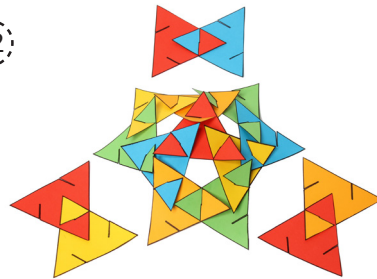
This is how the construction looks once the first eight triangles are connected. You make the third star-shaped part with the three front triangles (blue, red, and yellow) in the next step...

11



To do this, take an orange and a green triangle and slide them together. The orange triangle is then connected to the blue triangle and the green triangle to the yellow triangle.

12



You've now created groups of three triangles in three places. Next each of these groups should be connected together and closed using two more triangles.

13



This is how your finished construction will look!

TRIANGLE TEMPLATES, SMALL

