

3D Doodles



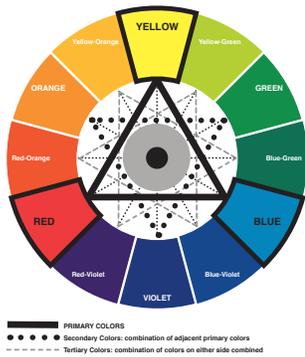
tetrahedron

cube

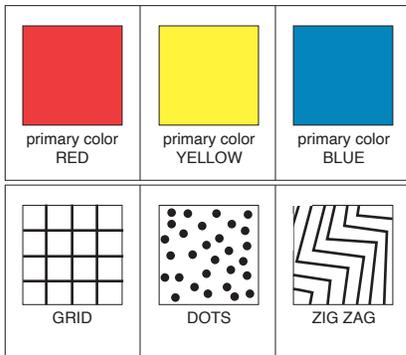
octahedron

icosahedron

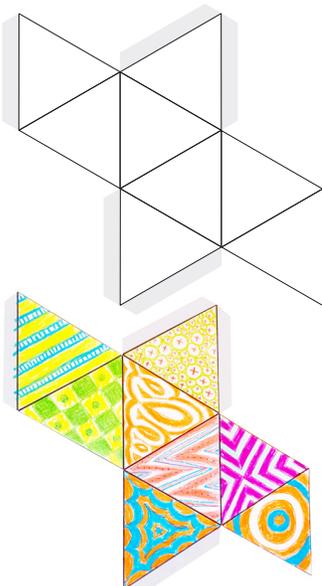
Color Wheel



Color a& Pattern Cards



Octahedron Template



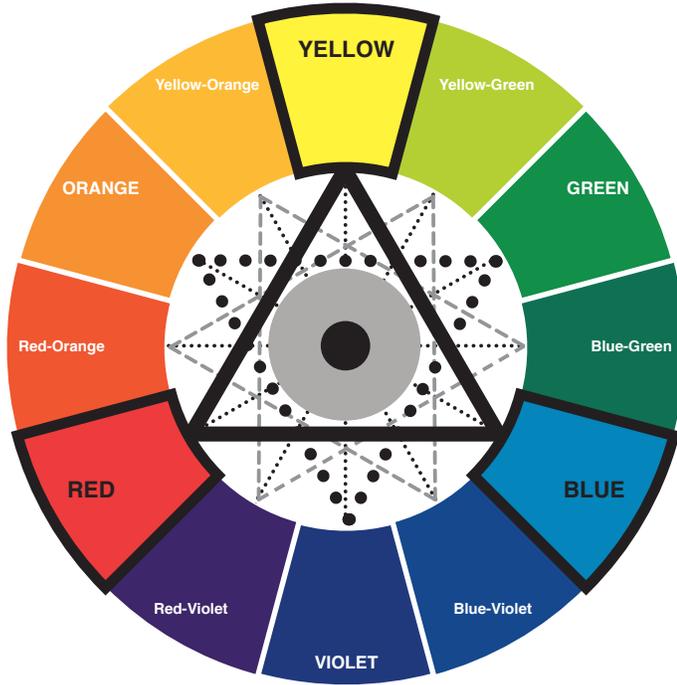
STEPS

- 1 Print and trim the deck of color and pattern cards. Make a stack of cards for each category.
- 2 With a black marker, draw a pattern in each pattern card.

A **pattern** is a design in which lines, shapes, forms or colors are repeated. Patterns can be regular or irregular. Dots in patterns can be different sizes and shapes. Lines can be straight, curved, short, long, dashed, thick or thin, and overlap. How many patterns you can come up with?
- 3 From our assortment of 3 dimensional shapes, select, output and trim a solid shape template. If you have a utility blade, lightly and carefully scoring the black lines to get sharp fold edges.
- 4 Alternate between picking cards for color and a pattern. Using the color selected, draw the chosen pattern. There's no need to exactly copy the pattern – feel free to try something new! When selecting a panel to draw on, try to avoid having the same colors in adjacent panels.
- 5 Color in the white sections of the paper with the complementary color. For instance, if you spun red, you'd use green to fill in the white since it's the color opposite red on the color wheel. It's okay to leave some white areas. Draw what feels right.
- 6 Once all the panels are filled in, it's time to form it into a 3D shape. Decide which corner you want on top for the hanging and glue the twine inside (with the knot inside to keep it from slipping out).
- 7 Glue the tabs to form the 3D shape. You can also tape or glue gun the shape together, depending on what supplies you have available.
- 8 If you've done this project with another person, step back and admire your work and the wonder of the variety of solutions. There's no right or wrong with art, just different approaches!

Good luck and have fun!

Color Wheel



- PRIMARY COLORS
- Secondary Colors: combination of adjacent primary colors
- Tertiary Colors: combination of colors on either side combined
- Complementary Colors: colors opposite one another on the color wheel

Patterns

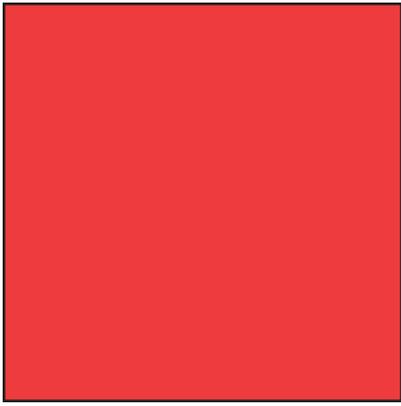


The Geometry of Solid Shapes

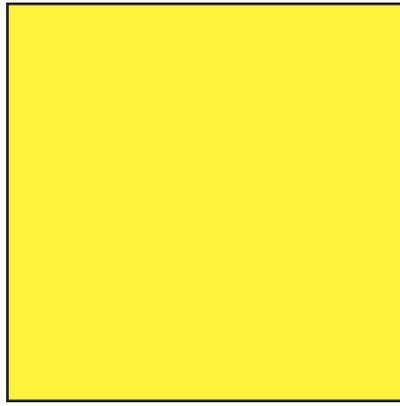
Download templates to make your own 3D shapes at LookWhatIDid.org/3D-doodle

Number of faces/sides	Face Shape	Solid Shape	Name of Solid Shape	Platonic Solid: are faces regular polygons?*	Notes
4	 equilateral triangle		tetrahedron	yes	D4: Each face has three numbers placed at each corner. The roll is the upright number. These die are tossed since they don't roll well.
6	 square		cube	yes	D6: The most common die. Typically numbered 1-6 with dots (pips), the opposite faces add up to 7.
8	 equilateral triangle		octahedron	yes	D8: Uncommon die. When numbered 1-8 with dots (pips), the opposite faces add up to 9.
10	 kite		pentagonal trapezohedron	no	D10: Very uncommon die. The opposite faces typically add up to 9 (0-9) or 11 (1-10).
12	 pentagon		dodecahedron	yes	D12: The sum of the numbers on opposite faces is typically 13.
20	 equilateral triangle		icosahedron	yes	D20: The oldest known die shape, they are sometimes numbered 0-9 twice. The sum of the numbers on opposite faces is 21 if numbered 1-20.

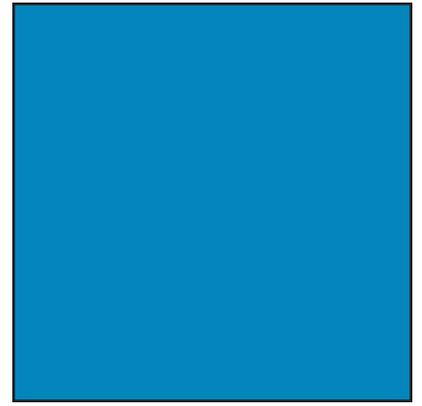
* **Regular polygon:** a plane figure that is equiangular (all angles are equal in measure) and equilateral (all sides have the same length)



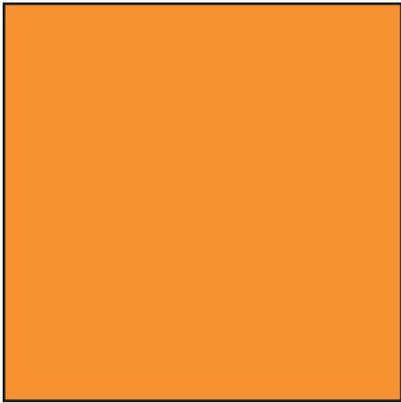
primary color
RED



primary color
YELLOW



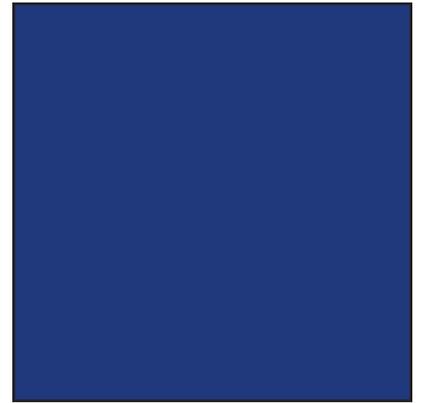
primary color
BLUE



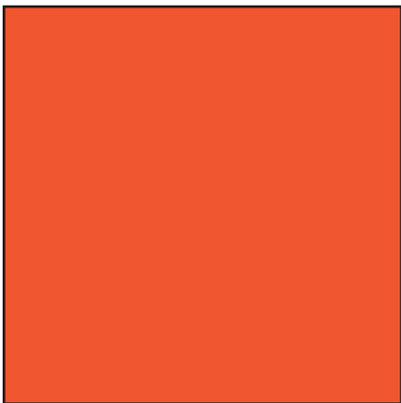
secondary color
ORANGE



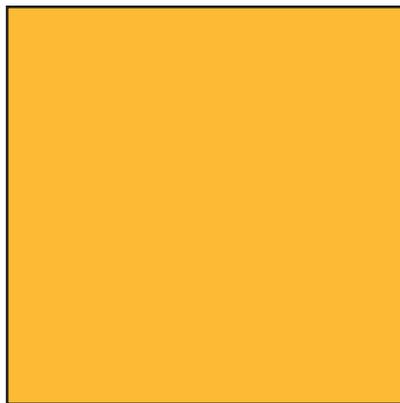
secondary color
GREEN



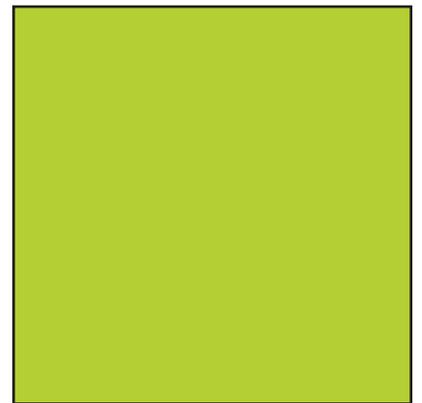
secondary color
VIOLET



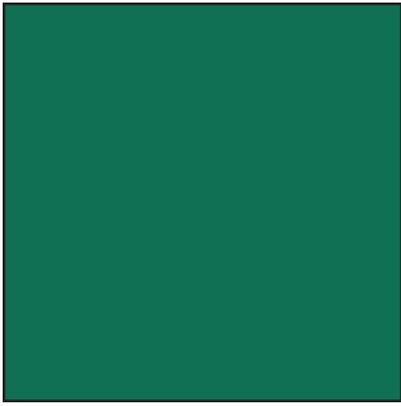
tertiary color
RED-ORANGE



tertiary color
YELLOW-ORANGE



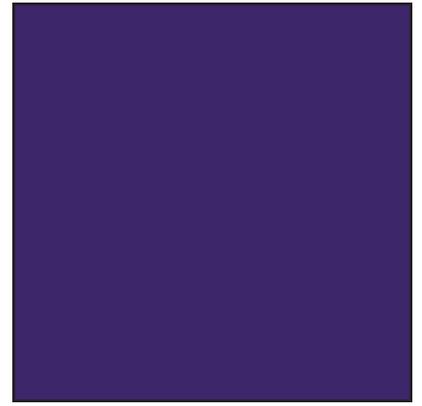
tertiary color
YELLOW-GREEN



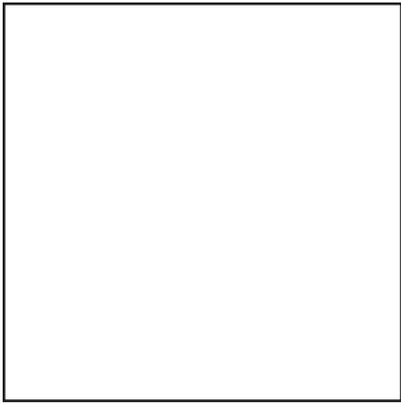
tertiary color
BLUE-GREEN



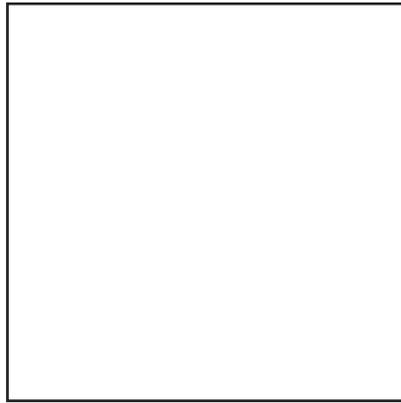
tertiary color
BLUE-VIOLET



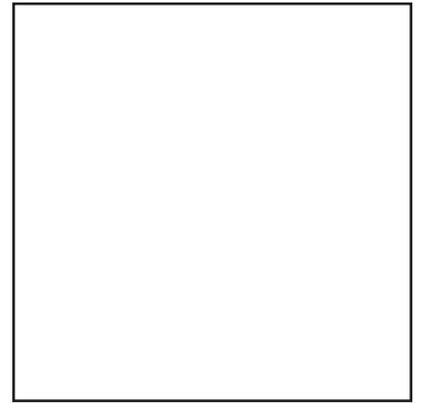
tertiary color
RED-VIOLET



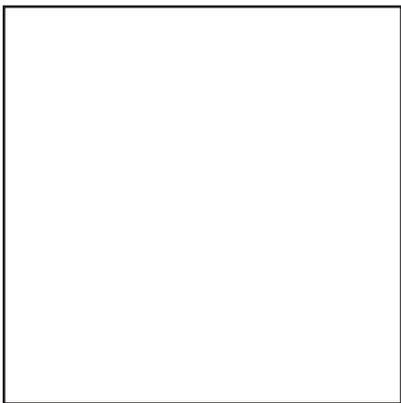
stars



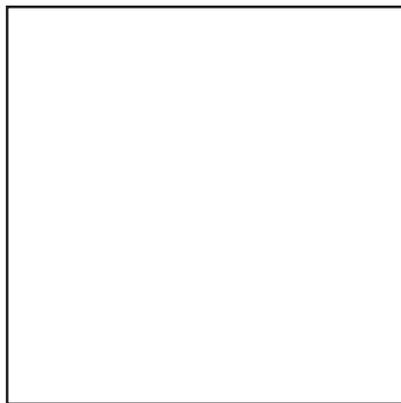
rectangles



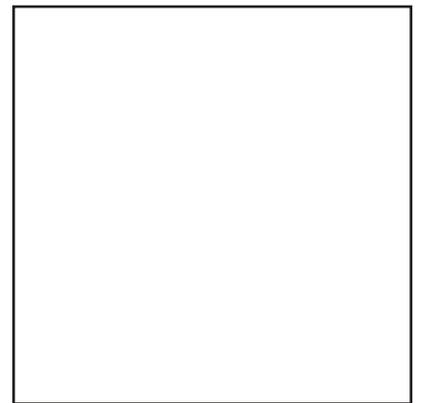
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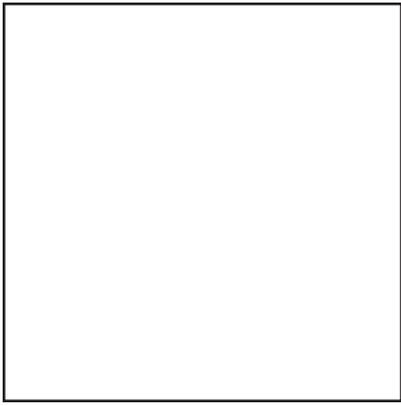
checkered curves



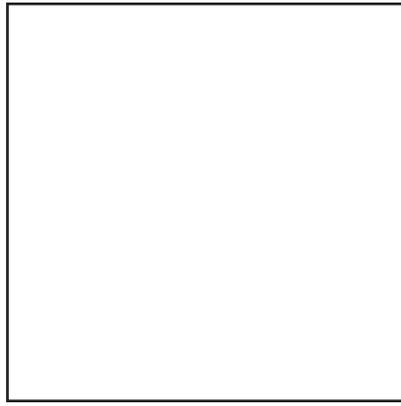
tertiary color



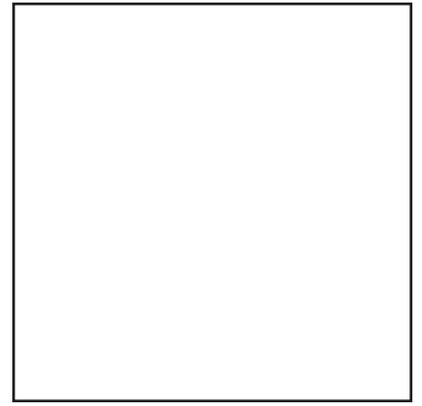
tertiary color



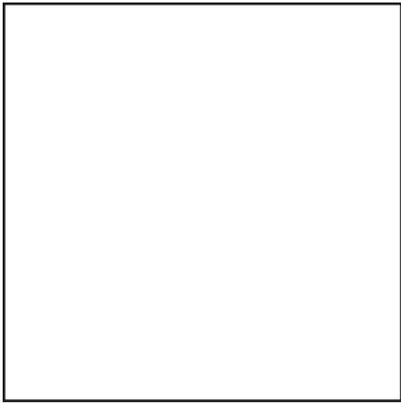
parallel lines



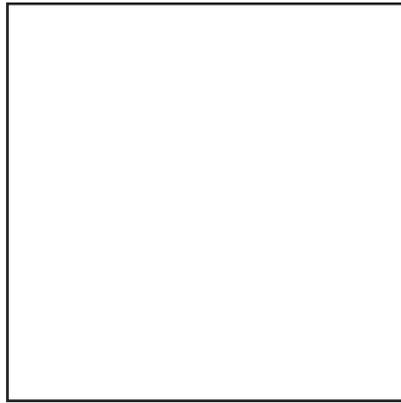
swirl



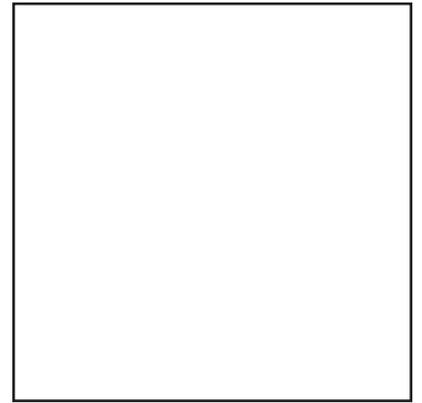
drops



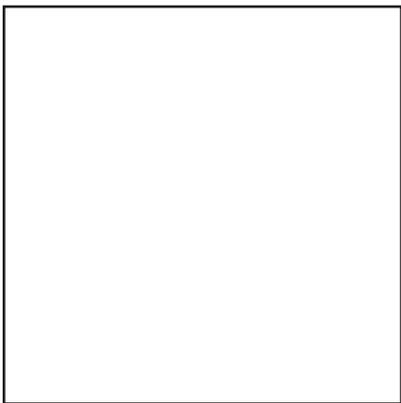
dots



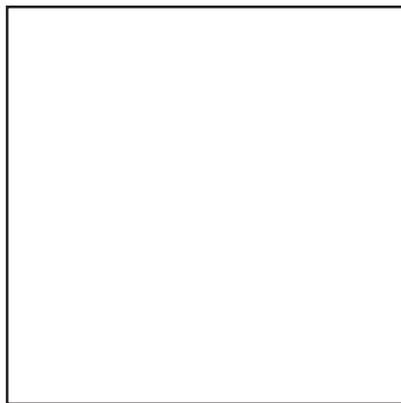
pebbles



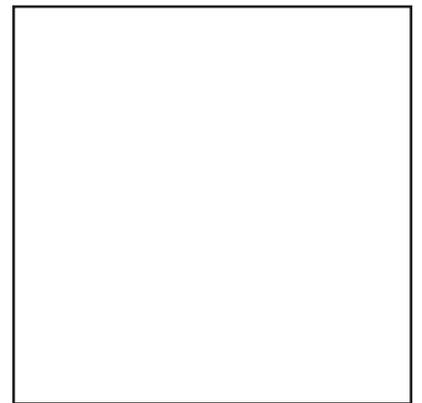
zig zag



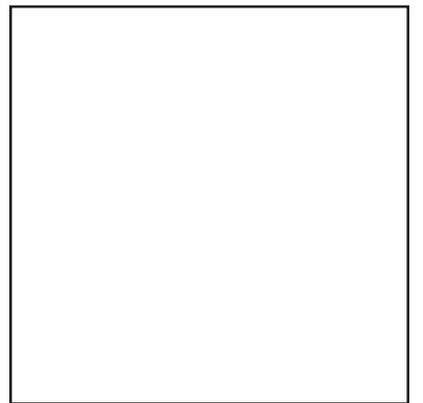
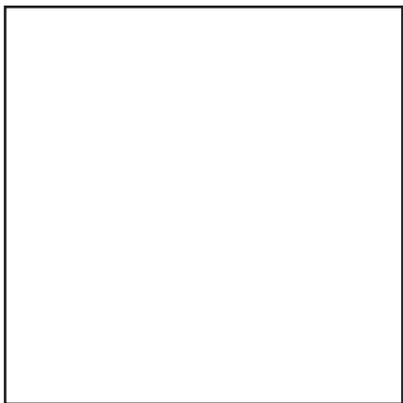
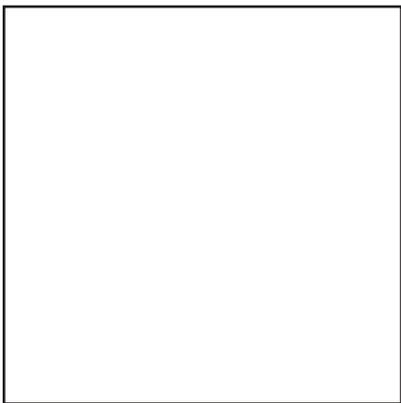
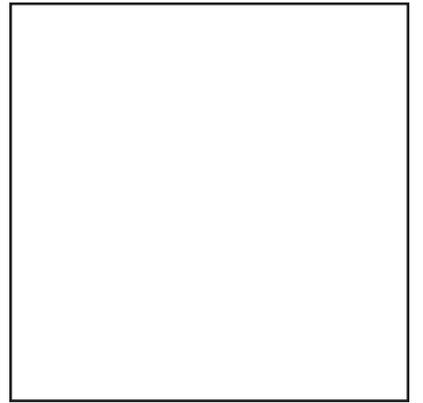
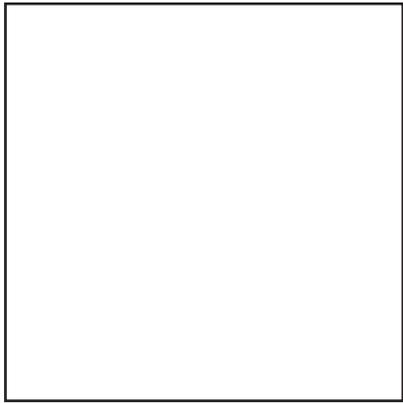
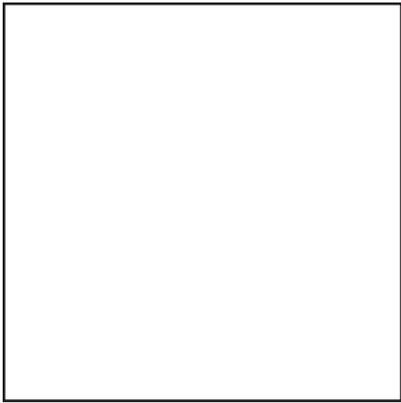
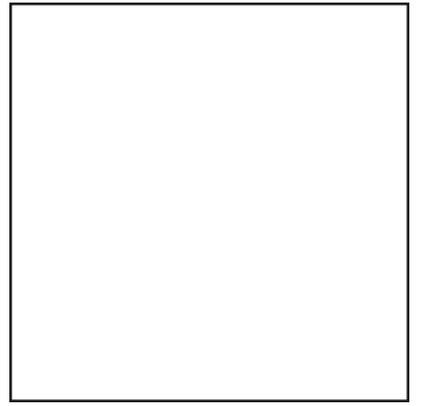
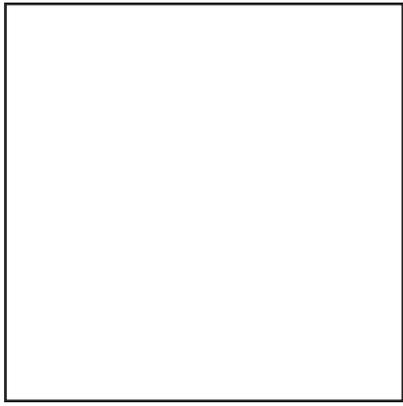
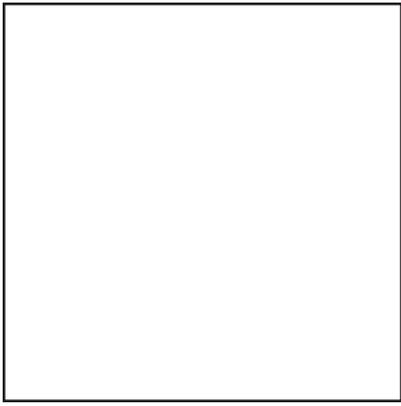
ripple



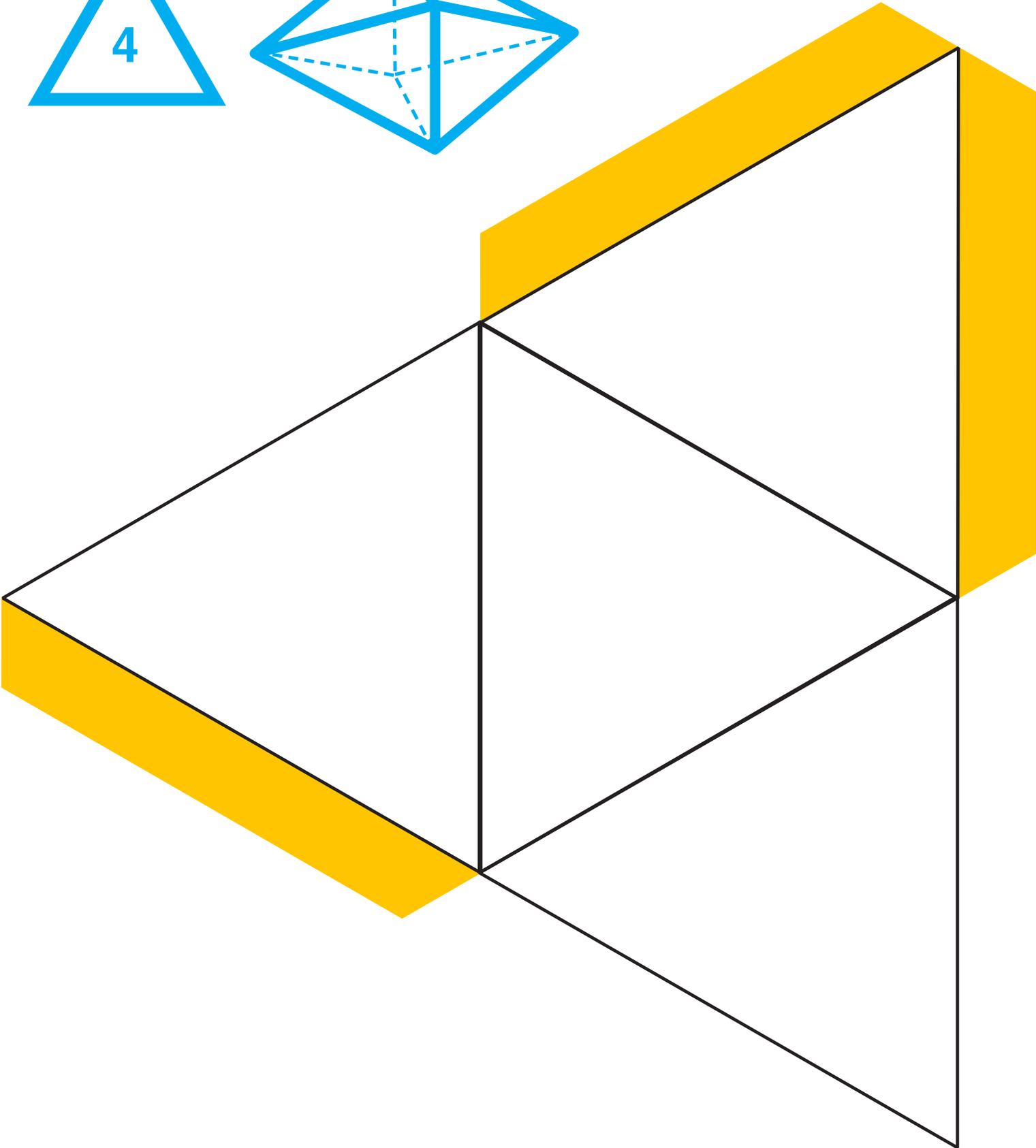
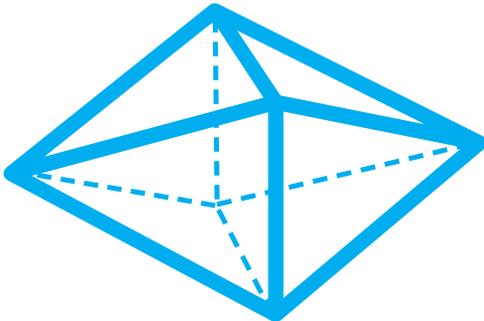
grid



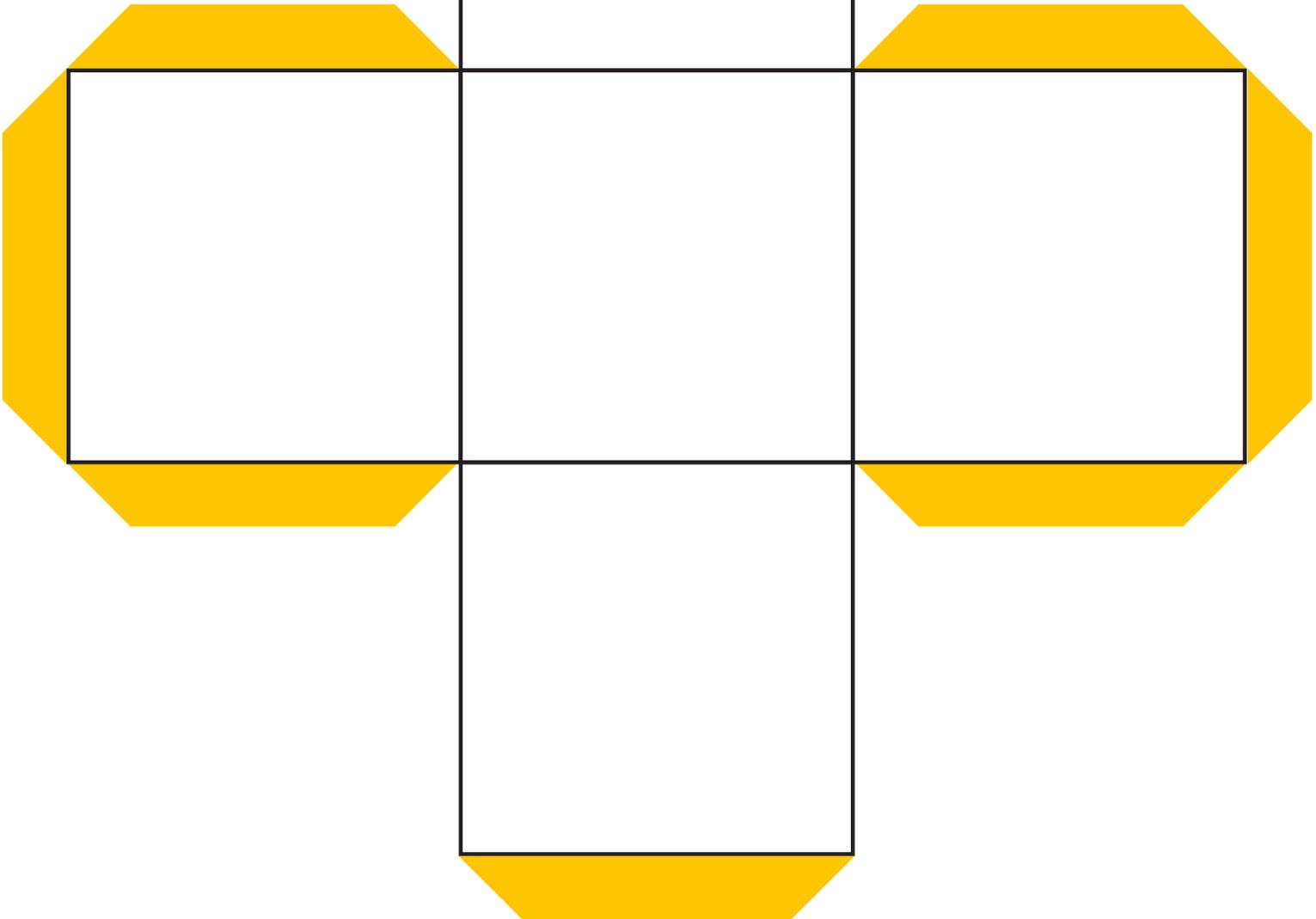
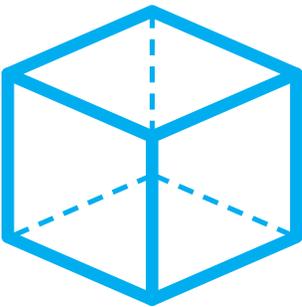
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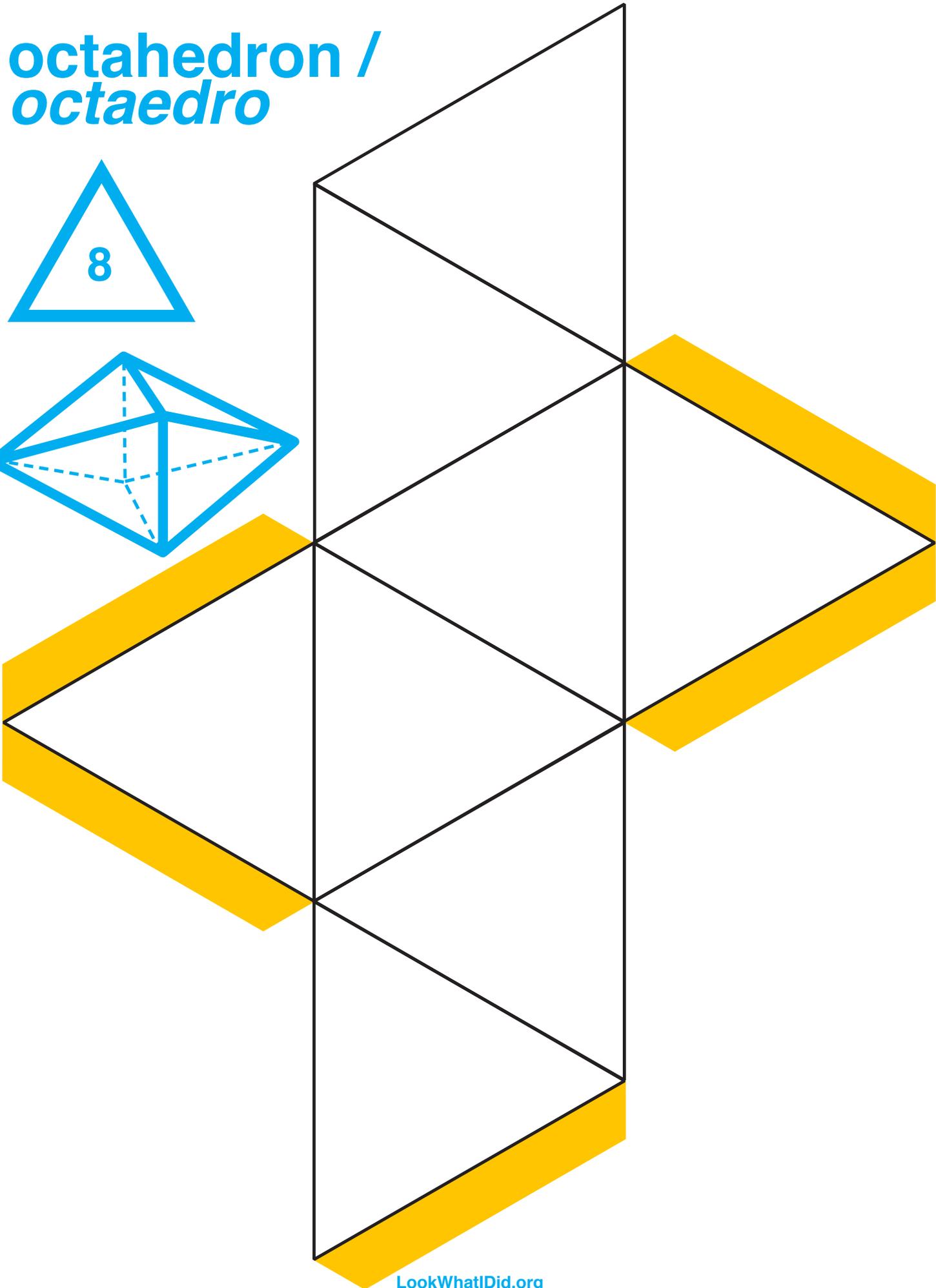
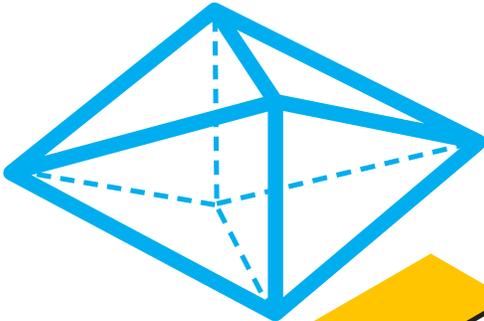
tetrahedron / *tetraedros*



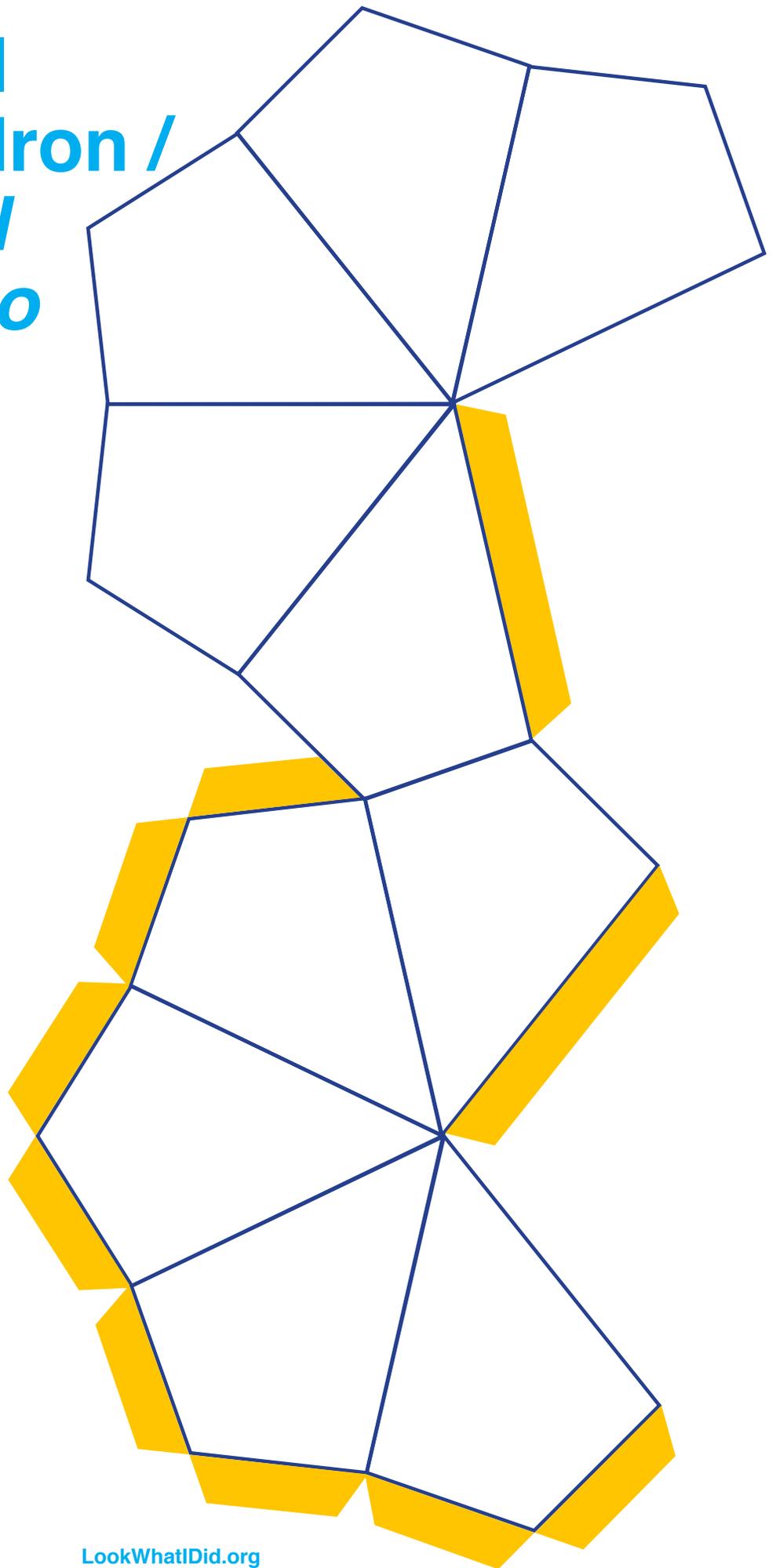
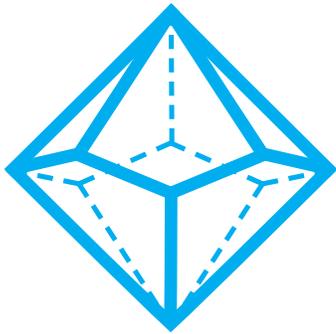
**cube /
cubo**



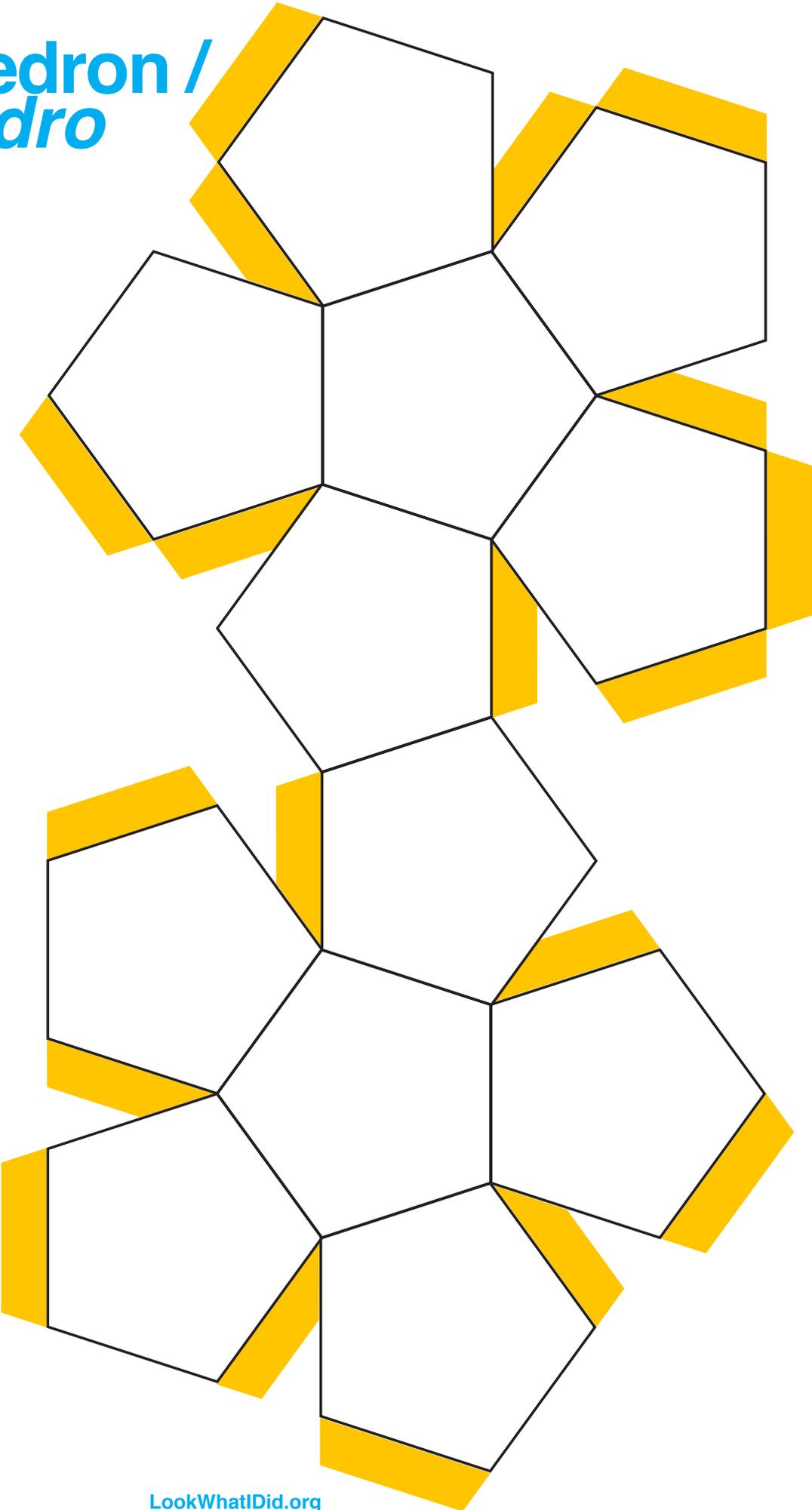
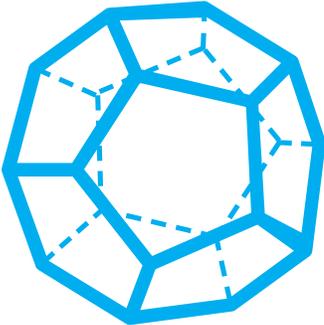
octahedron / *octaedro*



pentagonal
trapezohedron /
pentagonal
trapezoedro



dodecahedron / *dodecaedro*



icosahedron / *icosaedro*

