



Solid figures

HOW TO CREATE YOUR ELEMENTS

STORAGE

If your activity with the pupils is integrating the build of the solid forms, the template of the elements can be stored in an envelope.

However, if your activity involves manipulating already-created solid forms, you must store them in a box: we recommend a shoe box.

CRAFT THE ELEMENTS

A. Print the annexes

On A4 sheets (at least 220gr), print the annexe “Platonic solids_storytelling”.

B. Prepare the elements

Follow the instructions below. Dotted lines indicate the cut location; follow them to isolate the template from the sheet.

C. Build the figures

Some of the black lines indicate the fold locations; check the instructions below to see how it goes. Identify the “glue” areas: those bands will be used to fix the plane surfaces together.

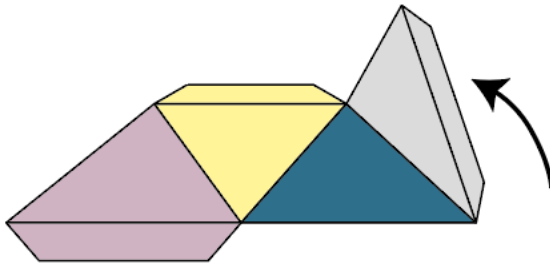


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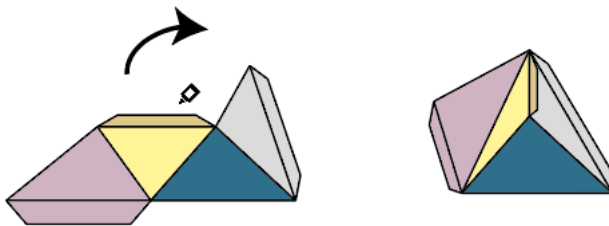
MATHEMATICS

Follow the instructions below and repeat them until the solid has been built.

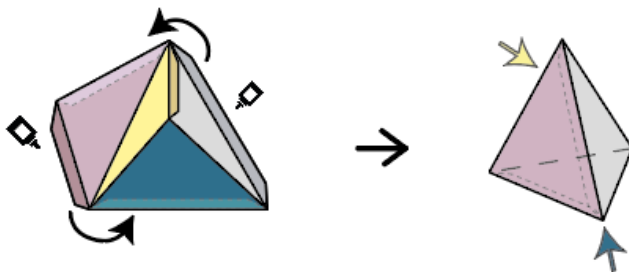
1. Take one of the surfaces at the extremity of the figure and hardly fold the line that joins the rest of the figure.



2. Glue the "Glue" area.



3. Press the "Glue" area against the related neighbour surface.



4. Repeat until it's done!

Note: If you are facing difficulties in fixing the last surface, you can tape it.

POTENTIAL ISSUES

See note above.



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MATHEMATICS

ALTERNATIVES

A. Solid forms with sticks

Instead of using paper, it is possible to create the forms with long sticks.

This YouTube video provides a good explanation of the process:

<https://www.youtube.com/watch?v=q4lQeteyhyY>

B. Solid forms with a 3D printer

If you have access to a 3D printer, printing the solid forms would be more sustainable than in paper. Free 3D models are available on the internet; here is an example:

<https://www.thingiverse.com/thing:960362>



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