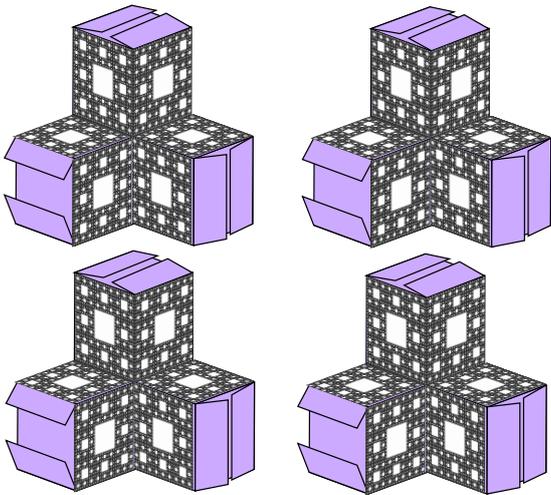


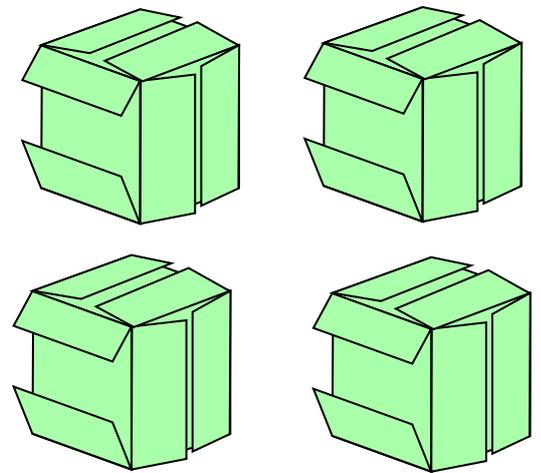
## Tripod construction method: level-1 sponge

Building the level-1 Menger sponge layer-by-layer might not appeal to you. Fortunately, Jeannine Mosely, the first person known to have constructed a level-3 Menger sponge, came up with a way to construct them using building blocks called "Tripods". For the level-1 sponge we will need the following:

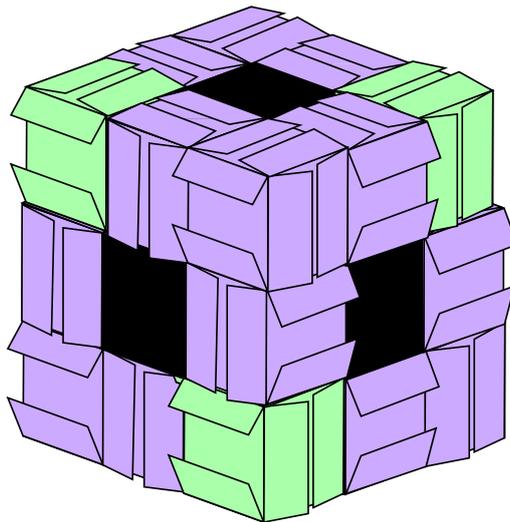
### Panelled single tripods x 4



### Unpanelled cubes x 4

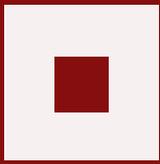


These elements link together to form a level-1 Menger sponge.



There is more than one order in which to put these elements together. We think it is easiest to work from the bottom to the top. We have put together some instructions, but feel free to mix it up. Just remember to keep an eye on the orientation of your building units!

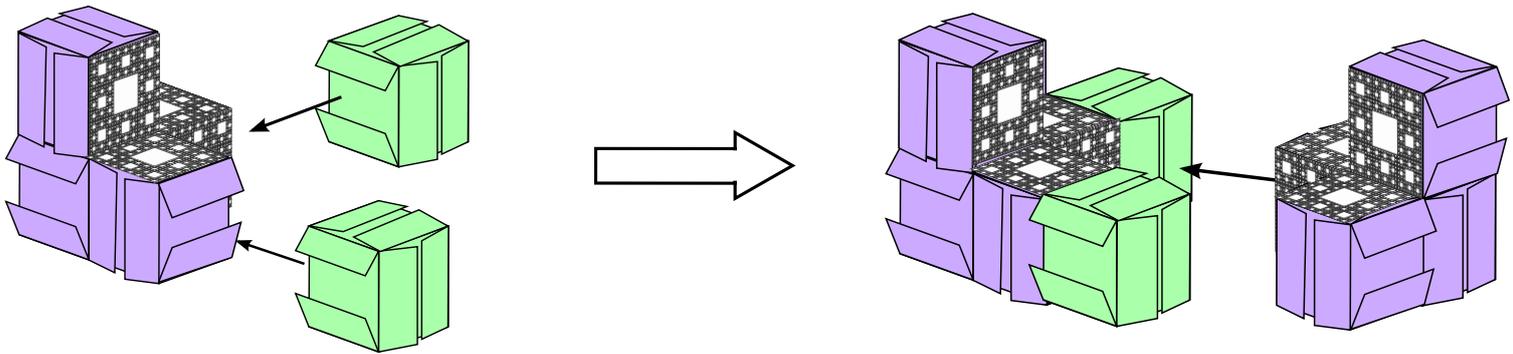
Supported by



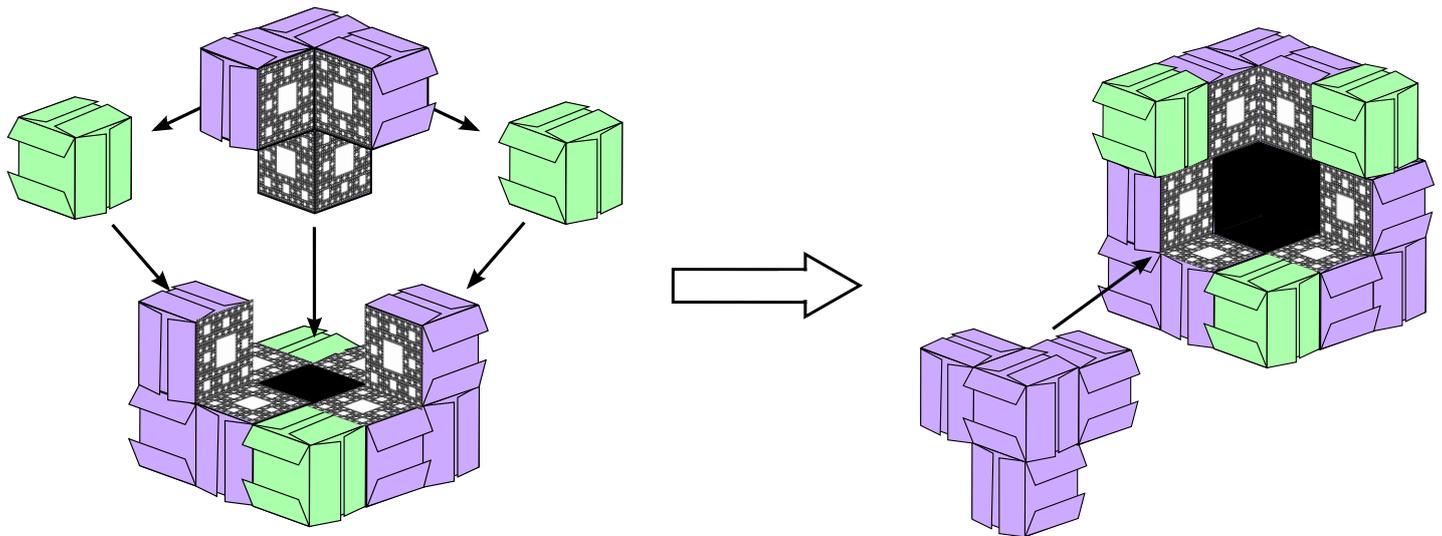
# MEGAMENGER

**Step 1.** You will need to have four unpanelled cubes, and four panelled single tripods.

**Step 2.** Link two panelled single tripods and two unpanelled cubes together as shown below.

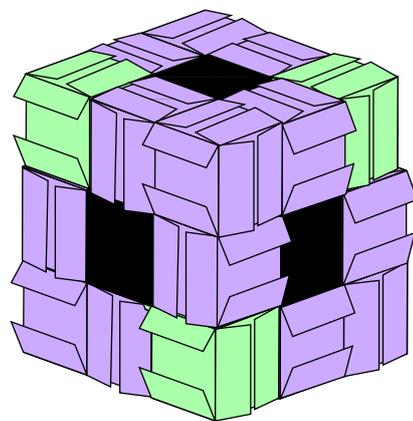


**Step 3.** Attach the remaining elements to the base.



Here's your finished level-1 Menger sponge ready to be linked to a larger structure - or if you are just building a level-1 you can finish off by panelling the outside.

If you find your tripods don't seem to fit together, look at the tripod worksheet again and check they're built the right way round!



Supported by