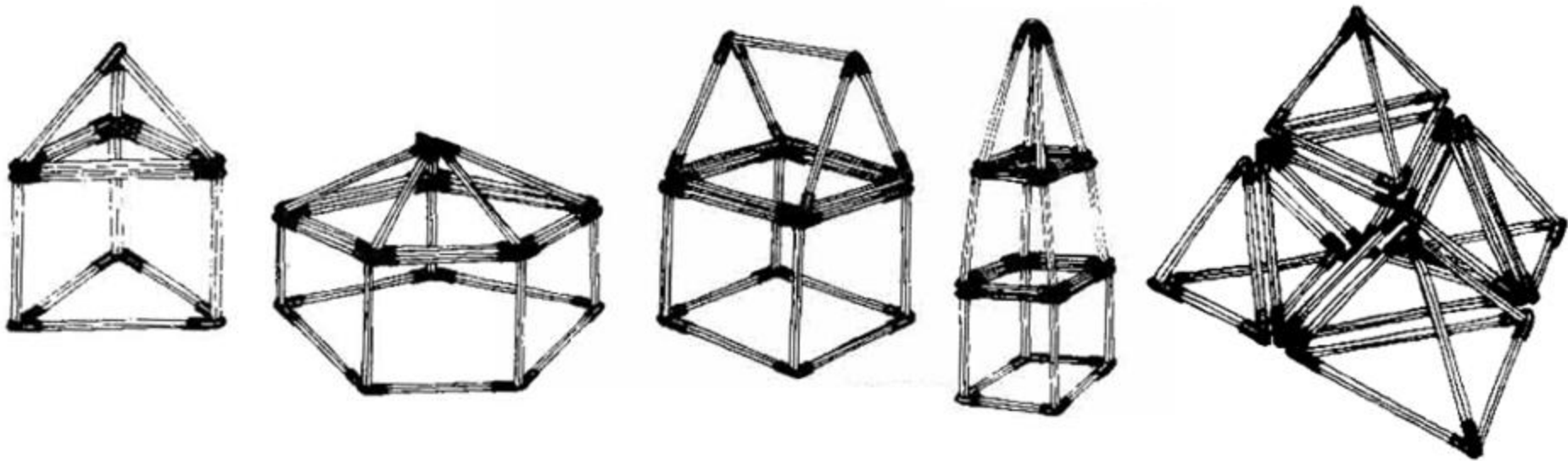
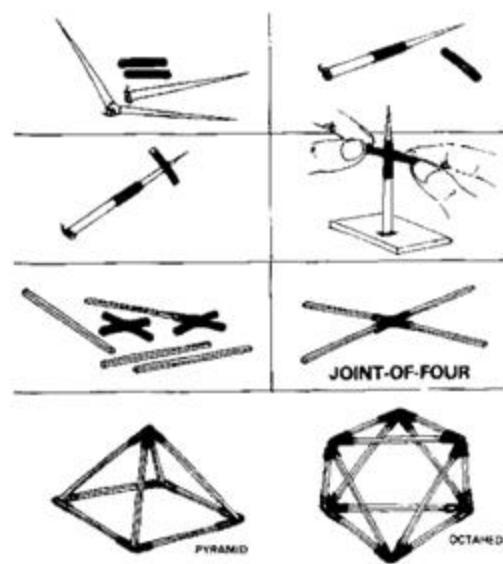
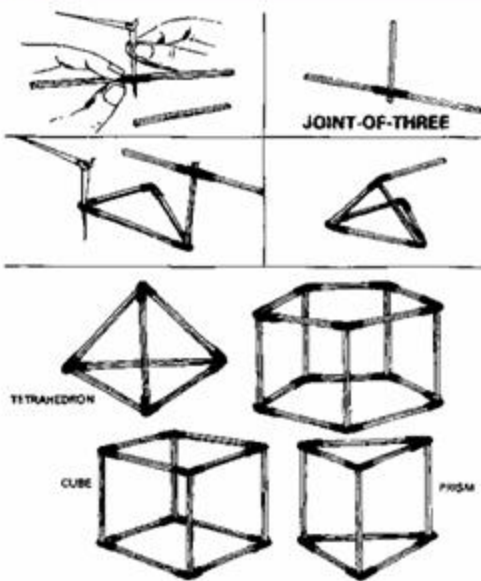
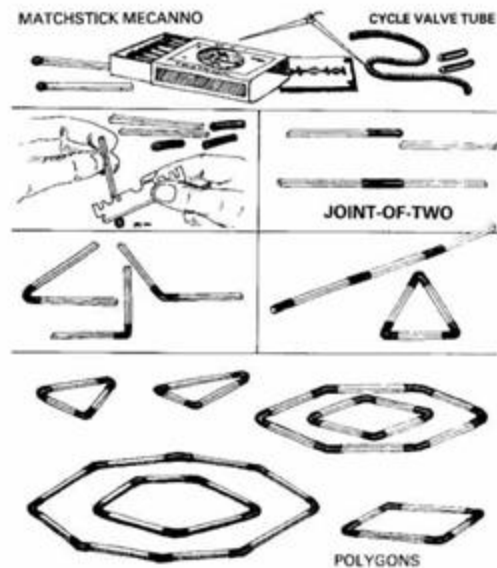


Now I'm sure that you must have played
with the matchstick mecano before..



Now how about scaling it up!?!

Do you remember how you made the matchstick structures?



For a refresher course:

<http://www.arvindguptatoys.com/arvindgupta/Matchstick.pdf>

We can do just that with paper rolls and cycle tyre tubes!

the former..



the latter..

Both of which are discarded (!) after they have been 'used'..

Here's how: Meet the joint family..



Two way



Three/
Four way



Five/
Six
way



Seven/
Eight way

All of whom are easily made with tyre tubes & a pair of scissors

Just stick the paper rolls into the joints,



And now you can make all sorts of polyhedra! Plug & play!

And you can go on to create three dimensional tessellations



Like this one which you can walk under!

Even with paper members and flexible rubber joints,



It's much stronger than you think it is!

