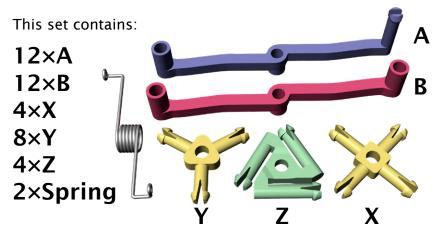


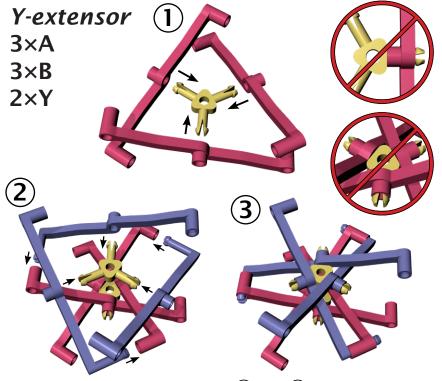
## Welcome to extensors

An *extensor* is an extending and retracting beam based on a scissor-like mechanism. Extensors can be connected together at nodes to build larger expanding structures and networks. Adding springs to extensors makes self-activated mechanisms!

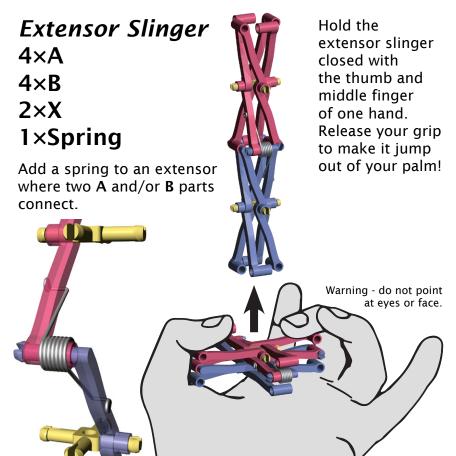


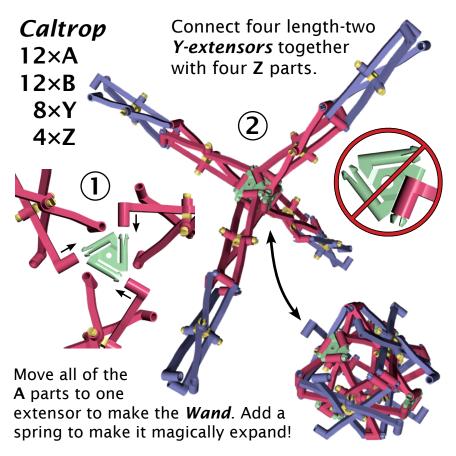
In this booklet the parts are colored according to their type; your set comes with a variety of colors for each part.

Check out MathMechs.com for video instructions.



Connect parts as shown in steps (1) and (2) to make a lengthtwo *Y-extensor*. Repeat step (2) to make longer extensors. Replace the Y parts with X parts to make an *X-extensor*.





Elbow

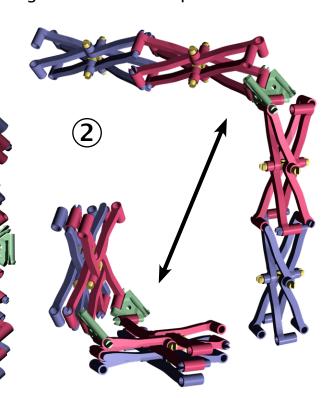
8×A

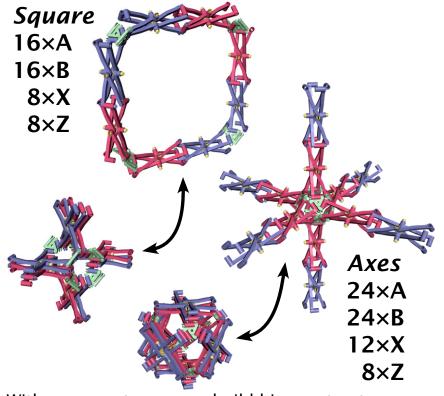
 $8 \times B$ 

4×X

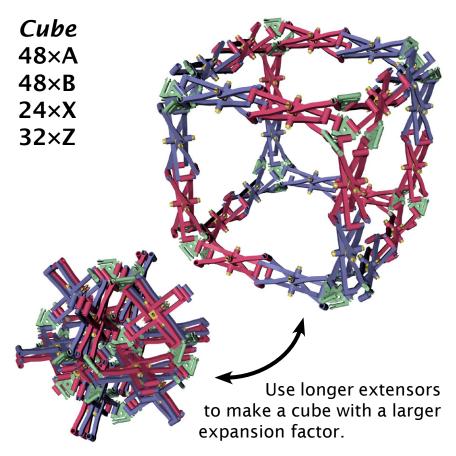
 $2 \times Z$ 

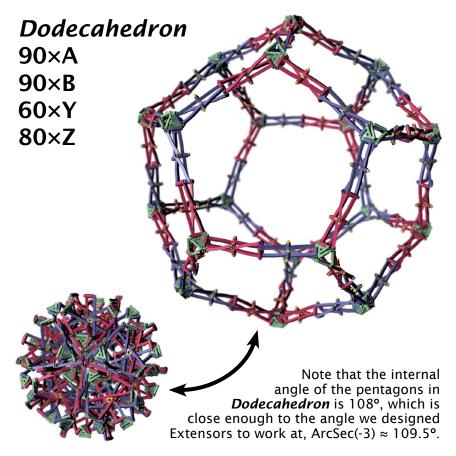
Connect two length-two *X-extensors* together with two **Z** parts.

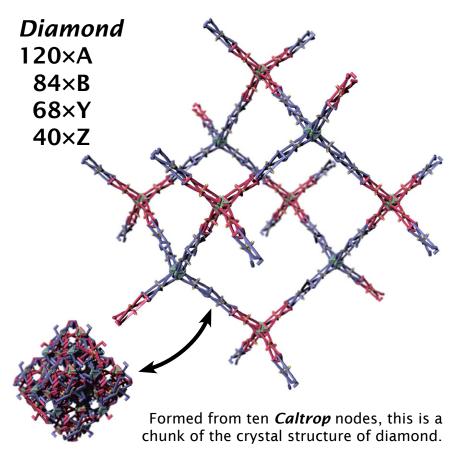


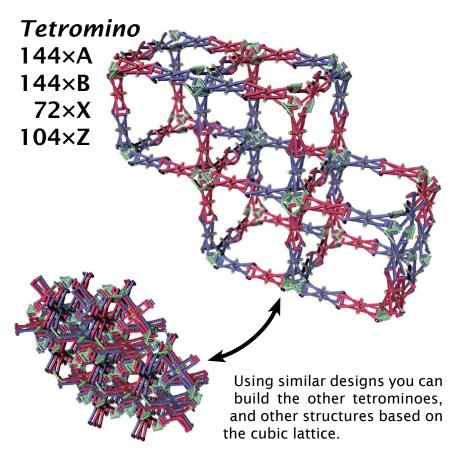


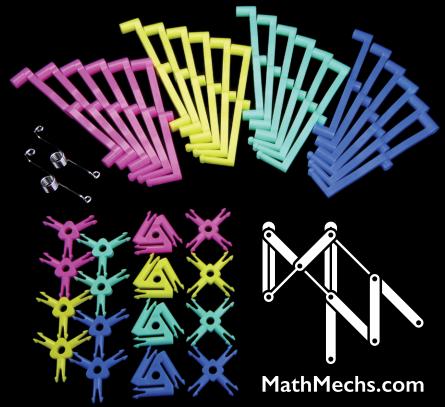
With more parts you can build bigger structures. Further examples are shown on the following pages.











Patent pending
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