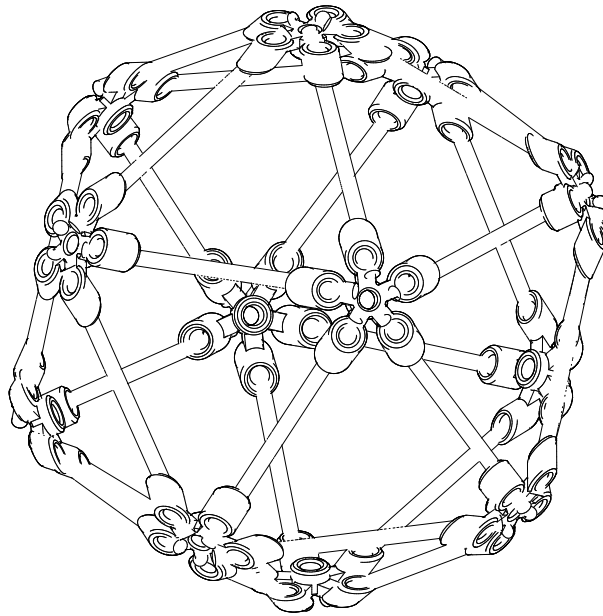


DOMAINE DE BOISBUCHET SHADOWS AND WHISPERS

Philip Beesley & Rob Gorbet / Living Architecture Systems Group
2022 Workshop



3

Geometry Exploration Kit Manual

Contents

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This manual contains a limited selection of patterns that will allow you to explore many different kinds of geometric organizations. This kit employs soft, resilient joints that can support many kinds of intermediate forms, revealing transitions between closed, hardened shells and open membranes and fluids.

The specific patterns included here relate to the intricate skeletal systems that can be found in the microscopic worlds of living nature. Within those worlds may be found hardened spherical shells and faceted crystals. Likewise, flowing membranes and floating, open structures may be found. In addition, the intermediate forms of colloids and manifolds form transitions between polarized kinds of solid, fluid and gas. By developing tangible form-languages based on these transitional kinds of forms, new generations of designers may be able to find renewed ways for working effectively with far-from-equilibrium environments.









Additional patterns may be found in the Living Architecture Systems Group Folio publication entitled Archimedean Solids. That publication, may be downloaded for free at the following link:

<https://livingarchitecturesystems.com/publication/geometry-kit/>

Kit Contents




TPE Stars:

45 Degree

-  20 x Duo
-  20 x Tri
-  12 x Quad
-  12 x Pent
-  12 x Hex
-  2 x Hept
-  4 x Oct
-  2 x Novem

TPE Stars:

Alternating

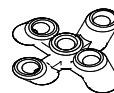
-  4 x Quad
-  4 x Hex
-  4 x Oct

Bamboo Struts

 80 x 3cm

 80 x 6cm

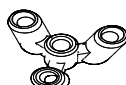
Alternating



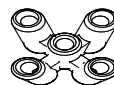
45 Degree



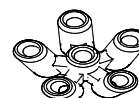
Duo



Tri



Quad



Pent

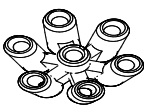
Alternating



Alternating



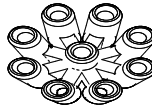
45 Degree



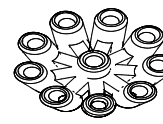
Hex



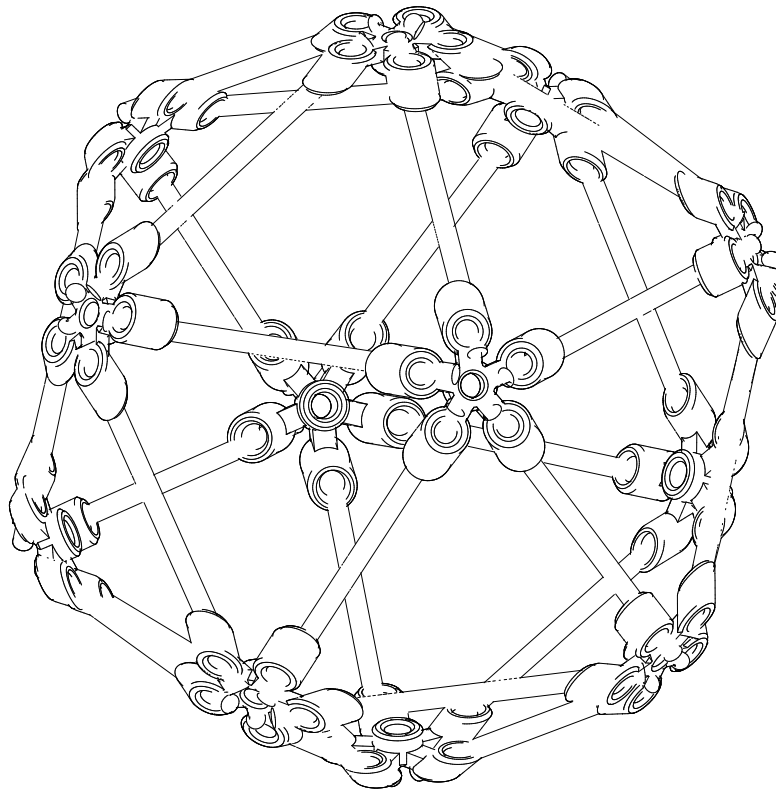
Hept



Oct



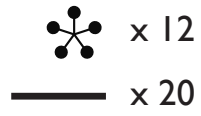
Novem



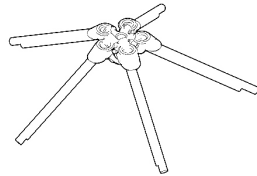
Icosahedron

12 Pent Connectors, 20 Bamboo
Struts

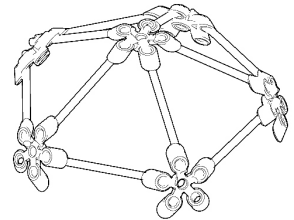
Assembly Diagram



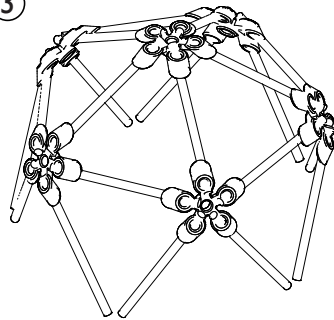
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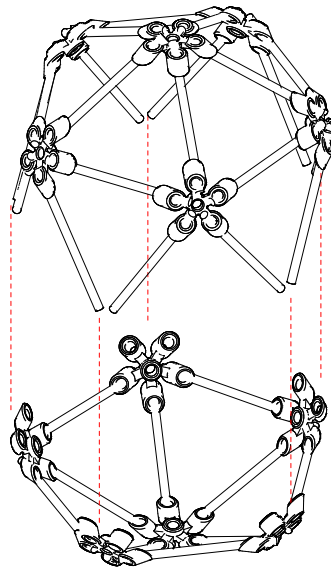
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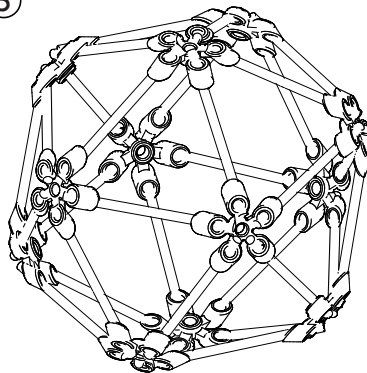
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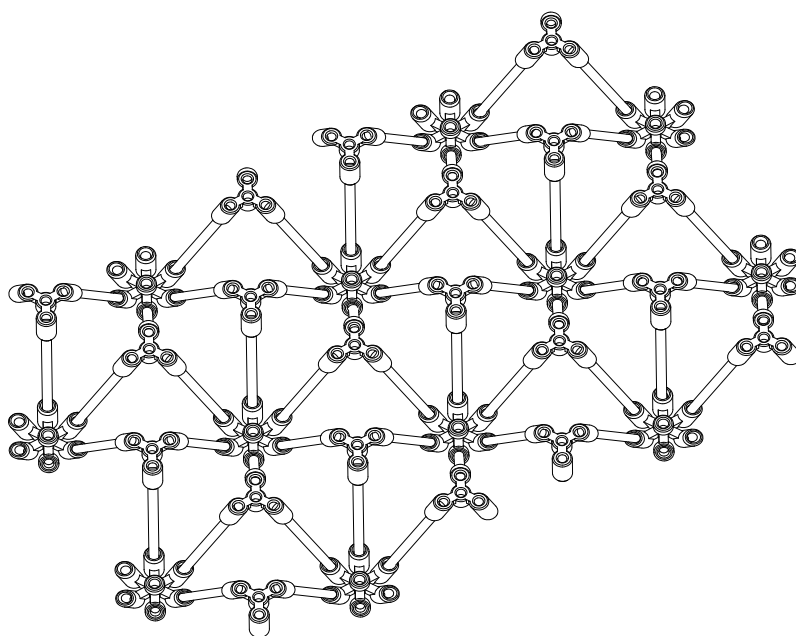


④






⑤





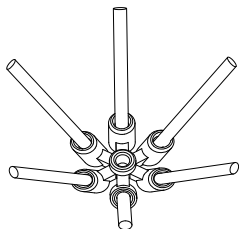
Waffle

20 Tri Connectors, 12 Hex
Connectors, 52 Bamboo Struts

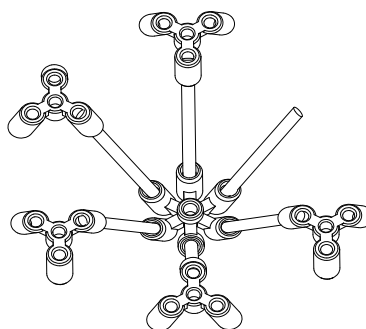
 x 20
 x 12
 x 52

Assembly Diagram

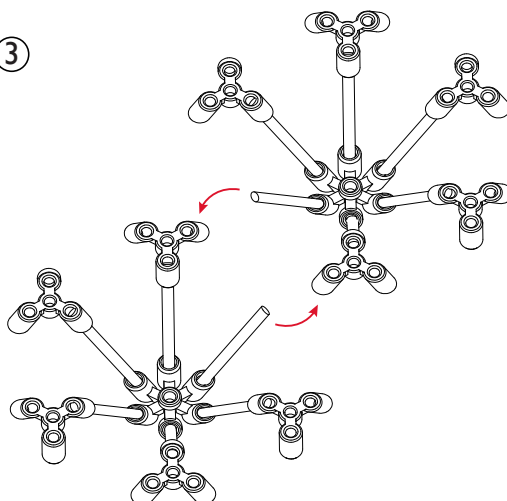
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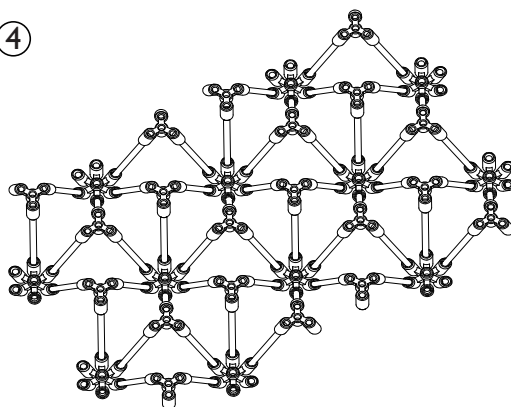
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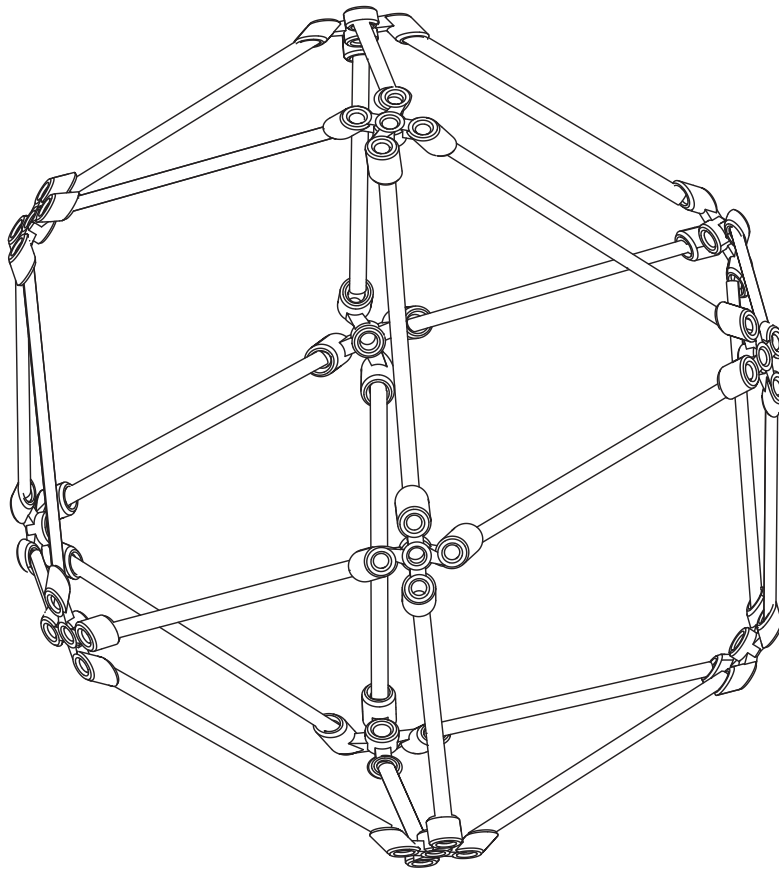


③





④



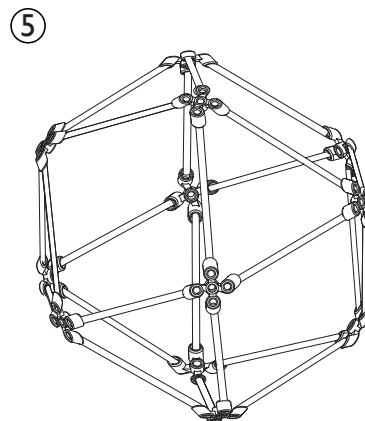
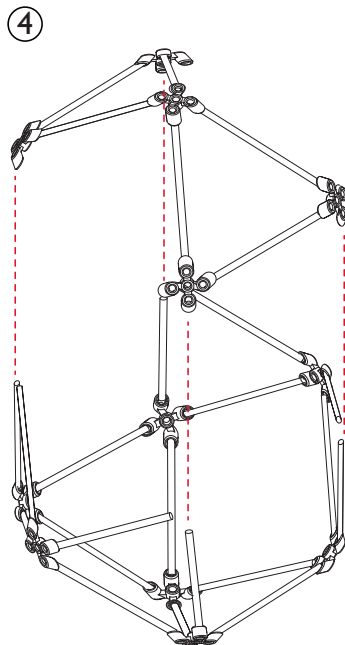
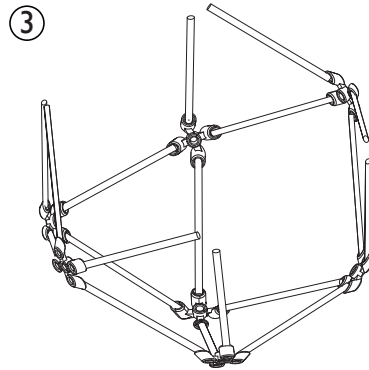
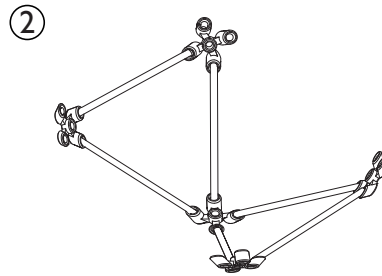
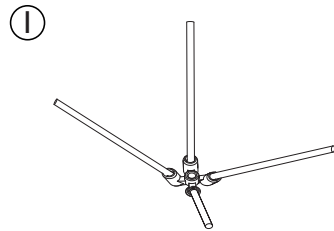


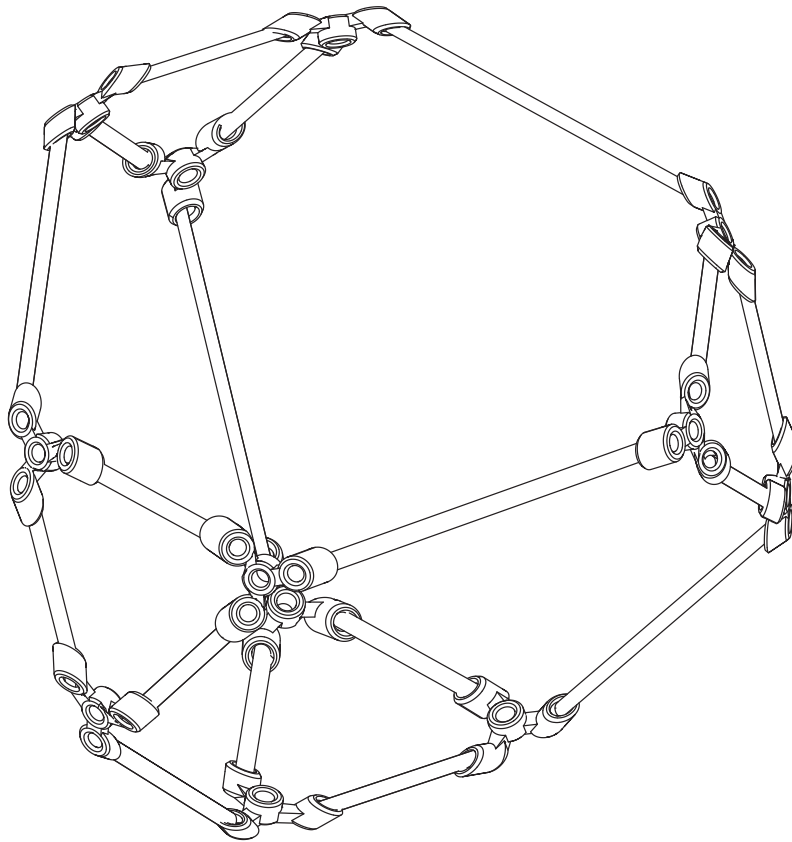
Cuboctahedron

12 Quad Connectors, 24 Bamboo
Struts

 x 12
 x 24



Assembly Diagram





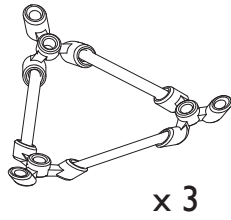
Truncated Tetrahedron

12 Tri Connectors, 18 Bamboo Struts

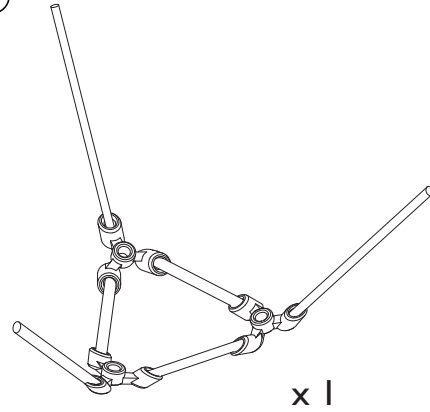
 x 12
 x 24

Assembly Diagram

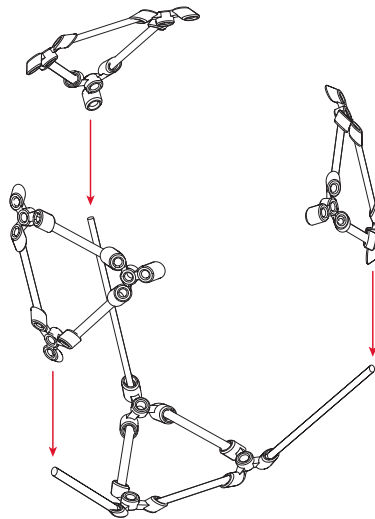
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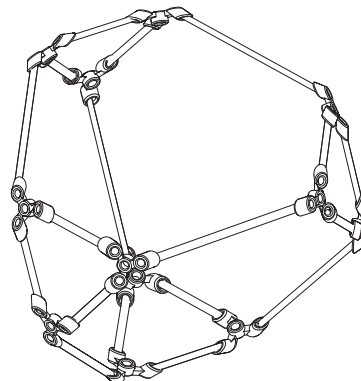
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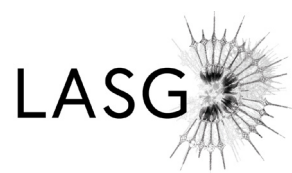


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