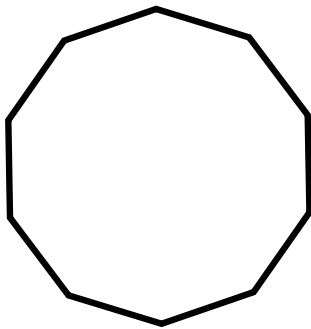
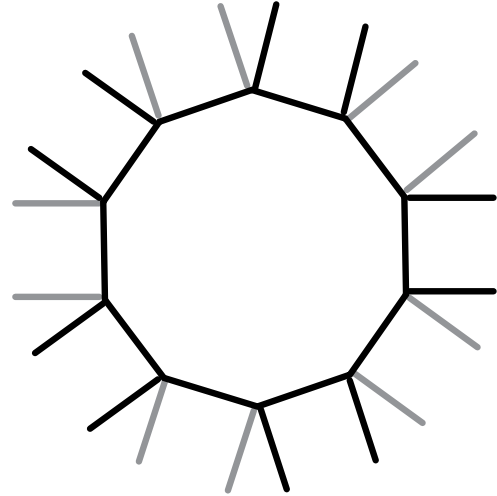


Part 1: The Base

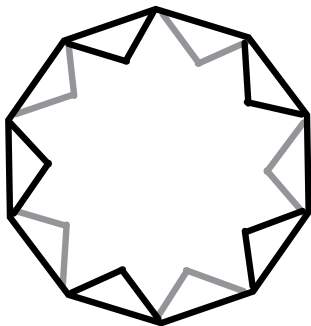
Step 1: Connect 10 toothpicks into a circle using marshmallows (or a similar material) as the joints



Step 2: Insert 2 toothpicks into each marshmallow joint so they extend out as a “V”

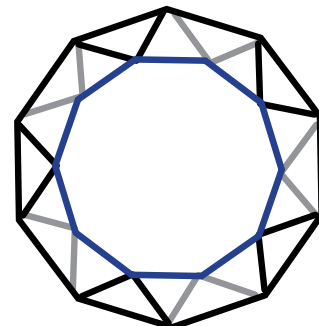


Step 3: Connect the “Vs” with other surrounding “Vs” using marshmallows as the joints



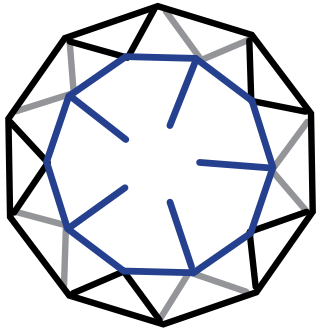
Part 2: The Second Level

Step 4: Connect the tip of each “V” using toothpicks to create a triangle. You will then have two levels of triangles.

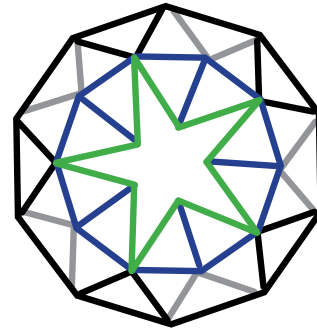


Part 2: The Second Level continued

Step 5: Insert 1 toothpick into every other marshmallow joint on the top level

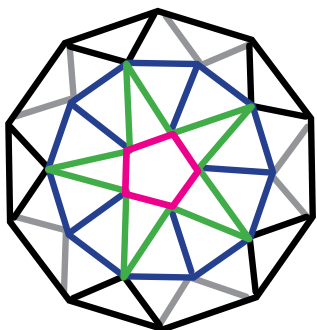


Step 6: Insert 2 toothpicks into the vacant marshmallow joints so they extend out as "Vs." Connect the "Vs" to the single toothpicks

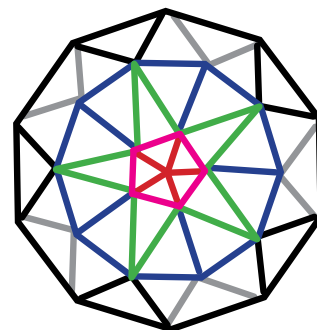


Part 3: The Top

Step 7: In the same way you did for Step 4, connect the tip of each "V" using toothpicks to create a triangle. You will now have a pentagon shape at the top of your dome



Step 8: Insert 1 toothpick into each marshmallow joint in the pentagon at the top and connect them in the middle using another marshmallow. You now have a complete geodesic dome!



Step-by-step Geodesic Dome Instruction

Building a Geodesic Dome

A geodesic dome is an “omnitriangulated” shape, meaning it is built out of small triangles. It is an example of a form active structure. Domes enclose the greatest volume using the least amount of surface area, which makes them very efficient buildings.

Buckminster “Bucky” Fuller, 1895-1983

What hair style would Bucky have today? Draw it!



Bucky was a Futurist and a Visionary. Write a sentence about how your geodesic dome design would better the way people live or improve the environment.