## Gumdrop <br> Dome

into Engineering

## What You Need

- 25 toothpicks
- II gumdrops


## Engineering Scoop

Engineers often use triangles when they design buildings. Did you notice that your dome is made up of lots of triangles? That's because triangles are stable shapes. That means they don't bend, twist, or collapse easily when you push on them. A square is not as stable as a triangle. Test it. Make a square and a triangle out of toothpicks and gumdrops. Press down on one corner of each shape. How do the two shapes compare? Does one bend, twist, or collapse more easily than the other?

I Use gumdrops to connect 5 toothpicks in a ring. This is your base.
2 Use 2 toothpicks and I gumdrop to make a triangle on one side of the base.



3 Repeat all the way around the base


5 Push I toothpick into each of the top gumdrops.
6 Use one last gumdrop to connect these toothpicks at the top.


