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## What is Engineering? Activity for Kids

### Engineering with Candy DIY



Duration: **45-60 min**



Difficulty: **Medium**



Cost: **\$0 to \$5**

Build a candy structure that is strong enough to hold up a book!

### Material List

- 1 Toothpicks
- 1 Bag of gummy bears
- 1 Hard cover book

### Instructions

- 1 Start by building a cube by connecting the toothpicks to the gummy bears.
- 2 Once your cube is made, test your structure by placing the book on top.
- 3 If your cube is not successful, try building another shape, such as a pyramid.
- 4 Build 3 pyramids out of the toothpicks and gummy bears.
- 5 Try spreading them out and placing the book on top.
- 5 Continue to adjust your structures as needed until they can support the book.

**Warning:** Be careful not to poke yourself with the toothpicks.

### How It Works

Some shapes have more strength than others. Triangles give more support than squares when building structures. Triangles are used a lot in construction of things like bridges. An engineer can test many different solutions and each time they redesign it, the solution can get better.