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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

-  Toothpicks
-  Bag of gummy bears
-  Hard cover book

Instructions

-  Start by building a cube by connecting the toothpicks to the gummy bears.
-  Once your cube is made, test your structure by placing the book on top.
-  If your cube is not successful, try building another shape, such as a pyramid.
-  Build 3 pyramids out of the toothpicks and gummy bears.
-  Try spreading them out and placing the book on top.
-  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.