

Name _____

Date _____

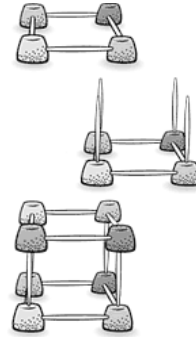
Gumdrop Polyhedra Exploration

Step 1: Make a cube out of gumdrops and toothpicks.

How many gumdrops did you need? _____

How many toothpicks did you need? _____

Add on more cubes until you have a box around 6 inches tall, wide, and long.



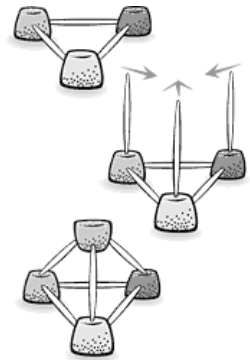
Try wiggling your box from side to side. Does it feel solid, or does it feel kind of shaky? Why?

Step 2: Make a triangular pyramid out of gumdrops and toothpicks.

How many gumdrops did you need? _____

How many toothpicks did you need? _____

Add more triangles onto the side of your pyramid until it is about six inches.



Try wiggling your shape from side to side. Does it feel solid, or does it feel kind of shaky? Why?

Step 3: Make a square pyramid out of gumdrops and toothpicks.

How many gumdrops did you need? _____

How many toothpicks did you need? _____

What other ways can you use squares and triangles together?

