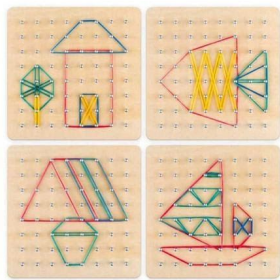


### What is GeoBoard?

A geoboard is a mathematical manipulative used to explore basic concepts in plane geometry such as perimeter, area and the characteristics of triangles and other polygons. It consists of a physical board with a certain number of nails half driven in, around which are wrapped geo bands that are made of rubber. rubber bands can also be used.



### Goals in GeoBoard!

The goals for this game is for students to find the following:

1. Having fun!!
2. Parents engaged!!
3. Interacting with parents by talking about make shapes, ask questions and daily conversations.
4. Visualize the concepts of squares, rectangles, triangles and polygons.
5. Explore line segments, areas, and perimeters.
6. Demonstrate the phenomenological approach in learning geometry.

Aside from learning basic geometric shapes, creating images and designs with rubber bands or non-latex loom bands on geoboards will also help your little learners develop important fine motor skills.

## MATERIALS NEEDED TO MAKE A GEOBOARD:

- 1 Package push pins (or about 25) You can also use small nails.
- 1 Package of rubber bands
- 1 Wooden Board (Grab a piece from the scrap section of the hardware store!)
- Hammer
- Graph paper

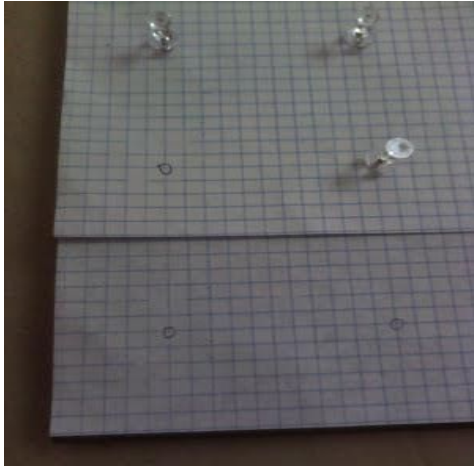
## Steps to Make A Geoboard!

### Step 1

The first step is to cut and paint your board if you want to. You can choose the size you want it to be. Larger will just require more pegs.

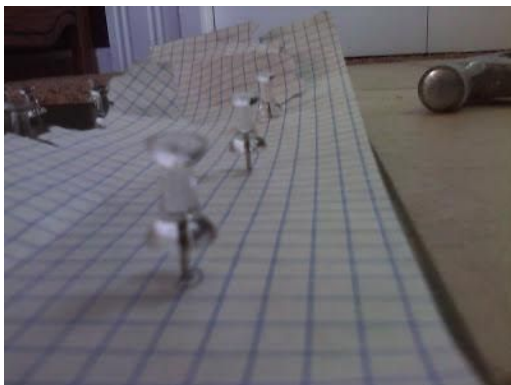
### Step 2

Next, lay the graph paper down on the board and mark with little circles where you want your pins to go. Make sure it is even. That's where the graph paper comes in handy. YOU can use the squares as a guide to get the pegs all even with one another.



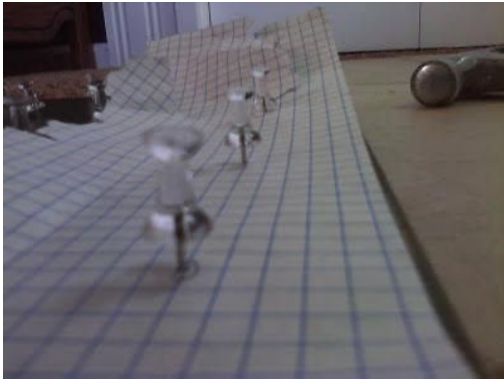
### Step 3

Now, keeping the graph paper on your board, you will lightly hammer the push pins into the circles you have made. Be sure not to hammer all the way down just yet.



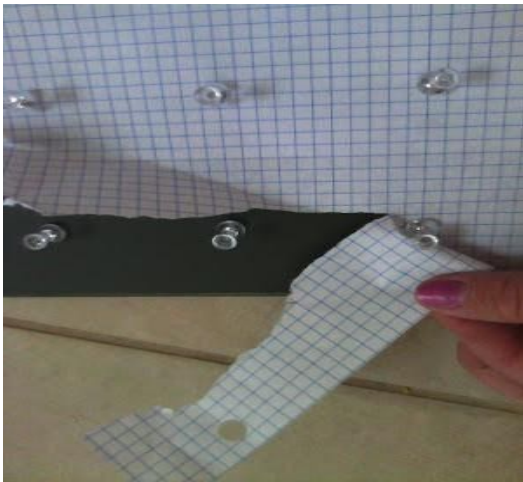
### Step 4

Now, keeping the graph paper on your board, you will lightly hammer the push pins into the circles you have made. Be sure not to hammer all the way down just yet.



## Step 5

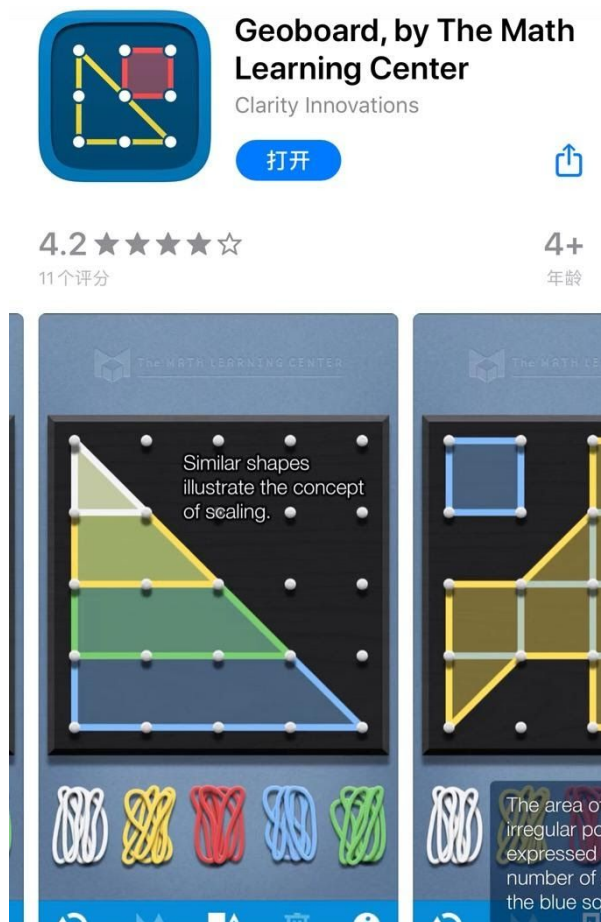
Then, starting down the center of a row of pins create a rip in the graph paper and pull off, one row at a time.



## Step 6

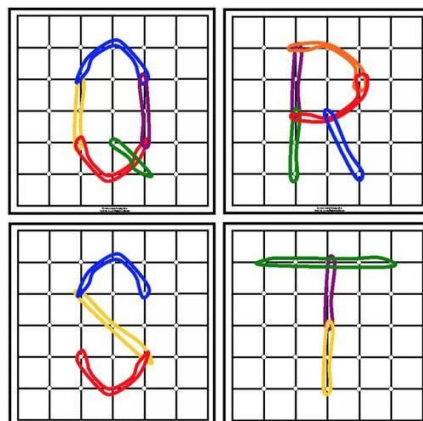
Finally, once you have all of your paper off you can hammer in the pins to the board. Make sure to get them in straight!





## Getting Started!!

First, you can print some pictures with different simple shapes. Since the children have already learned the letters, the alphabetic topic will be a good choice because letters are not hard for the kids to build and children are also familiar with letters.



I would recommend the parent to **let the children do this by themselves first**. As they manipulate the rubber bands they are developing hand-eye coordination and muscle control. When they're recreating the images from the task cards on their own geoboards, your kids are actually increasing their attention spans and ability to concentrate.

Parents can sit aside when the kids need help. Parents should also give reactions when you saw your kids are doing good. Supportive words will always bring passion to the kids!! **“Good job” “Nice try” “Excellent”!**



**There is no right or wrong way to play in this game!** Let your child play the way he/she wants to play. It's more motivating for him if you follow what he/she is doing rather than trying to get him/her to play your way.

### **Other General Ideas:**

- Create a Theme—this can be in a zoo, so the kids can create the animals. It can also be during a Math class, so the kids can build different shapes like triangle and square. There are many different themes parents could use for this activity.
- Bring child stay at different areas. When you are in the living room, you can help the child to observe what they can see and try to build what they saw. Parents can also bring child outside the house to get involved into the community and to see what the kids are interested in.

**HAVING FUN!!!!**