

# Busy Bins for \$5 or less

## DIY Geoboard

### MATERIALS

- Foamcore (1/4" or thicker)
- Grid paper\*
- Glue or mod podge with foam brush\*
- Duct tape – OR – Masking tape
- Push pins/Tacks with plastic heads
- Rubber bands, elastic hair ties, or loom bands
- 12-18 in. length of string (optional)
- Safety scissors\*\*
- Printable challenge cards available at:

[www.STEAMengineOKC.org/freebies#busybins](http://www.STEAMengineOKC.org/freebies#busybins)

\*Grid contact paper can be used in lieu of grid paper and glue

\*\*Optional. Adult supervision recommended while using scissors

### INSTRUCTIONS

- Cut your Foamcore into a square of the desired size
- Cut the grid paper to the size of your foamcore, leaving 1/2 in. around the edge
- Apply a thin layer of glue to the foamcore using the foam brush and affix the grid paper.
- Dip the sharp end of each push pin into the glue and create a grid of evenly spaced pins.
- Once dry, wrap duct tape around the edges of the grid paper and foamboard.
- Play along with the printable challenge cards.



### CHALLENGE #1:

Practice making letters with the rubber bands

© 2020 The STEAM Engine.

### CHALLENGE #2:

Practice making numbers 0-9 with the rubber bands

© 2020 The STEAM Engine.

### CHALLENGE #3:

Make the following shapes: Square, Triangle, Rectangle, Diamond.

© 2020 The STEAM Engine.

### CHALLENGE #4:

Make the following shapes: Heart, Star, Pentagon, Hexagon

© 2020 The STEAM Engine.



**CHALLENGE #5:**

Make the shape of an umbrella

© 2020 The STEAM Engine.

**CHALLENGE #6:**

Make the shape of an umbrella

© 2020 The STEAM Engine.

**CHALLENGE #7:**

How many squares can you make from a 5x5-pin geoboard?

© 2020 The STEAM Engine.

**CHALLENGE #8:**

How many squares can you make from an 8x8-pin geoboard?

© 2020 The STEAM Engine.

**CHALLENGE #9:**

How many triangles can you make from a 5x5-pin geoboard?

© 2020 The STEAM Engine.

**CHALLENGE #10:**

How many triangles can you make from an 8x8-pin geoboard?

© 2020 The STEAM Engine.

**CHALLENGE #11:**

Using string, create a continuous design with at least 6 sides

© 2020 The STEAM Engine.

**CHALLENGE #12:**

Using string, create a continuous design with at least 12 sides

© 2020 The STEAM Engine.

