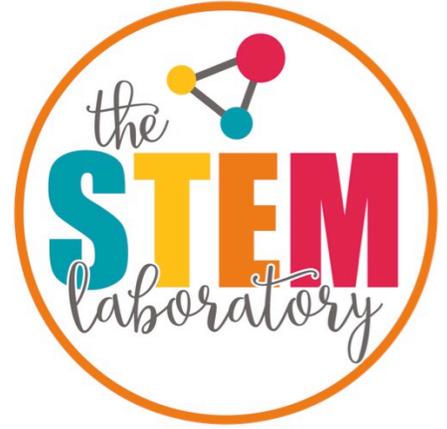


Playdough to PLATO



Thank you for your download! I hope that Playdough to Plato and The STEM Laboratory are helpful sources of fun, creative learning activities for your classroom or homeschool.

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Appreciatively,

Malia

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geoboard challenges

SKILL-

Build problem solving and design skills.

Explore the characteristics of 2D shapes.

Work on counting, beginning perimeter, angles, comparing and scaling.

PREP-

Grab a geoboard, a ruler (to draw straight lines on their record sheet) and a basket of rubber bands for each student.

For older children who are ready for a challenge, print one record sheet for each child.

ACTIVITY ONE-

Students grab one card at a time and recreate it on their boards with rubber bands.

For students who are ready for a challenge, have them draw a picture of each design on their record sheet using their ruler to make straight lines.

CHALLENGE ACTIVITY-

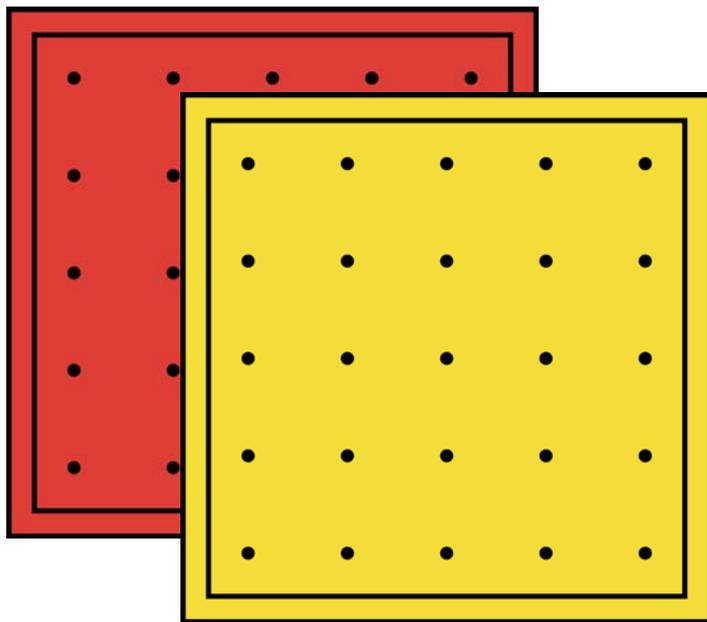
After talking as a class about several students geoboard designs, place children in groups of two. Without showing her design, have Student 1 choose one of her designs and describe it to Student 2 by counting pegs and using positional words like "on top", "to the right", "underneath", etc.

For instance, Student 1 might say, "Hook your first rubber band around the top left peg. Now count 4 pegs to the right. Hook the same rubber band around that peg..."

When Student 2 builds a matching picture, have the children swap roles and play again.

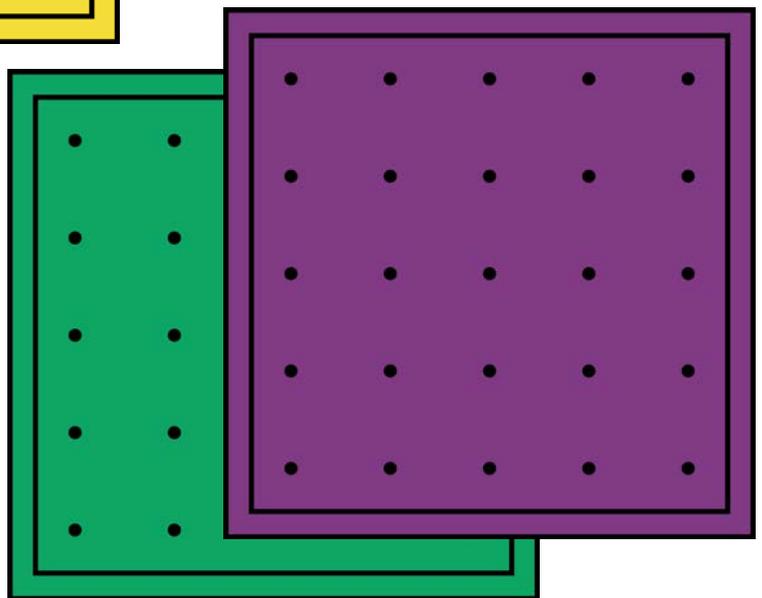
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Name _____

Geoboard Challenges

Create each picture with your rubber bands. Then draw them below. Continue building and drawing until all of the challenges are complete.

A 5x5 grid of dots for challenge A.

B A 5x5 grid of dots for challenge B.

C A 5x5 grid of dots for challenge C.

D A 5x5 grid of dots for challenge D.

E A 5x5 grid of dots for challenge E.

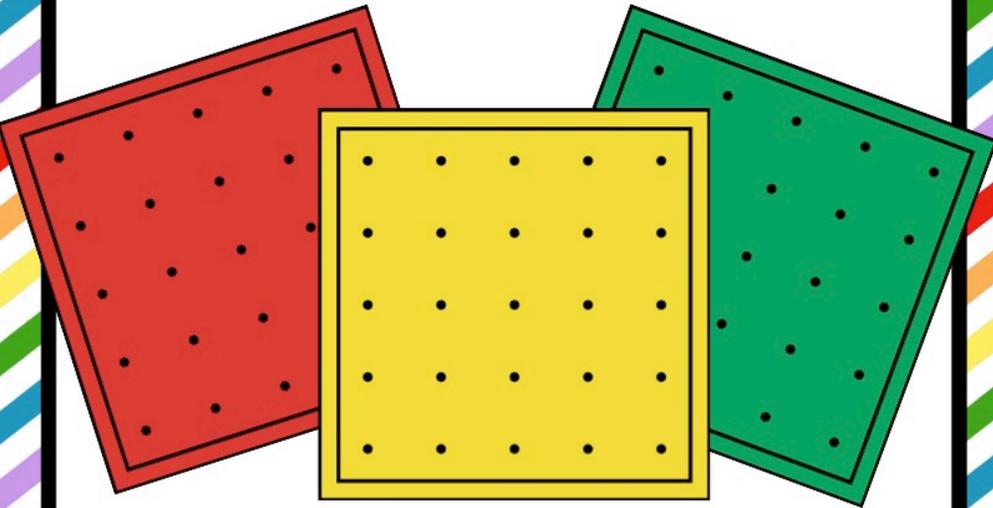
F A 5x5 grid of dots for challenge F.

G A 5x5 grid of dots for challenge G.

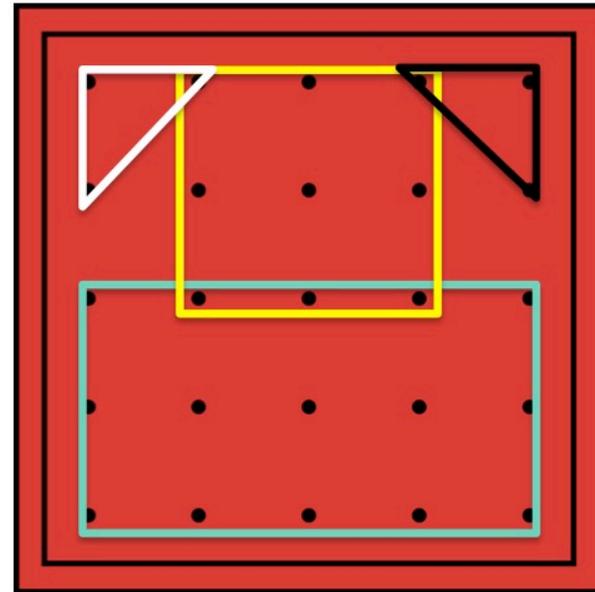
H A 5x5 grid of dots for challenge H.

I A 5x5 grid of dots for challenge I.

Geoboard Challenges



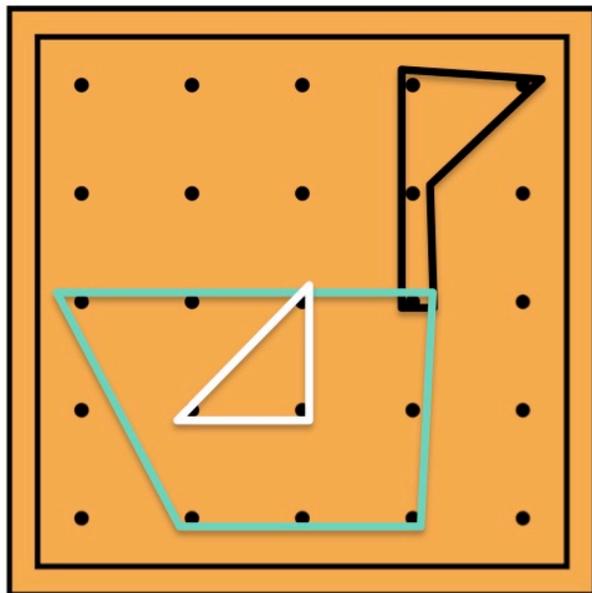
A



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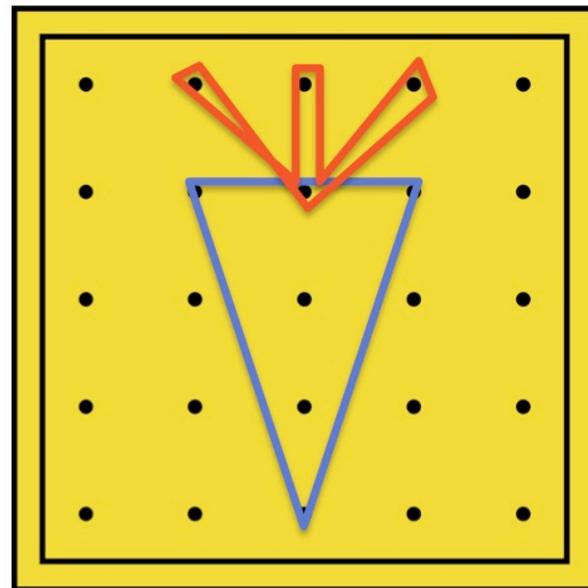
Dog

B



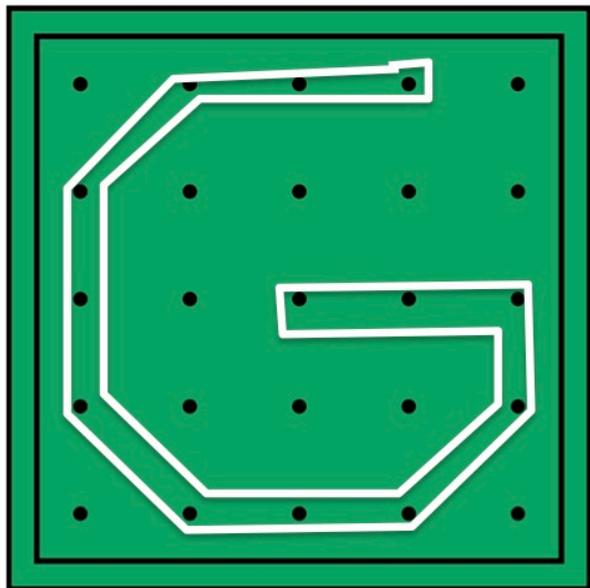
Duck

C



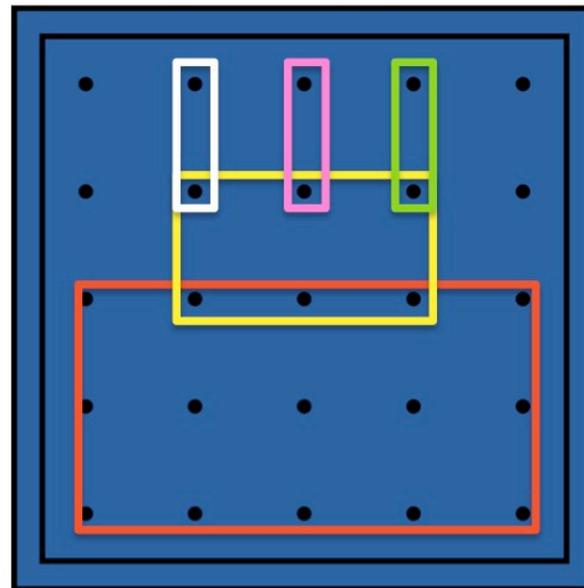
Carrot

D



Letter G

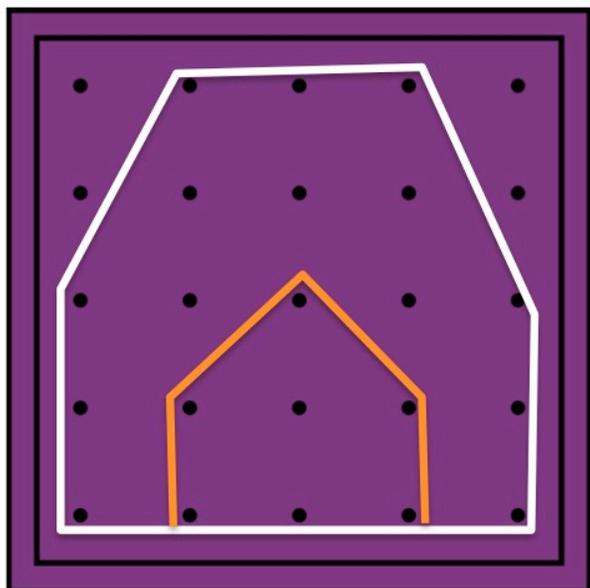
E



Birthday Cake and Candles

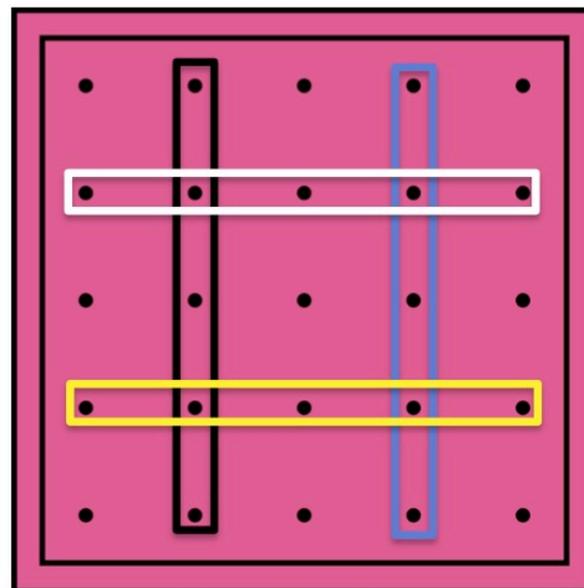
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F



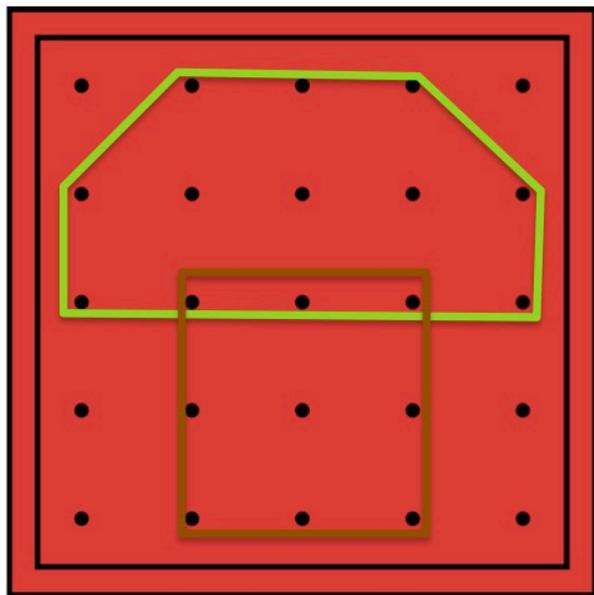
Barn

G



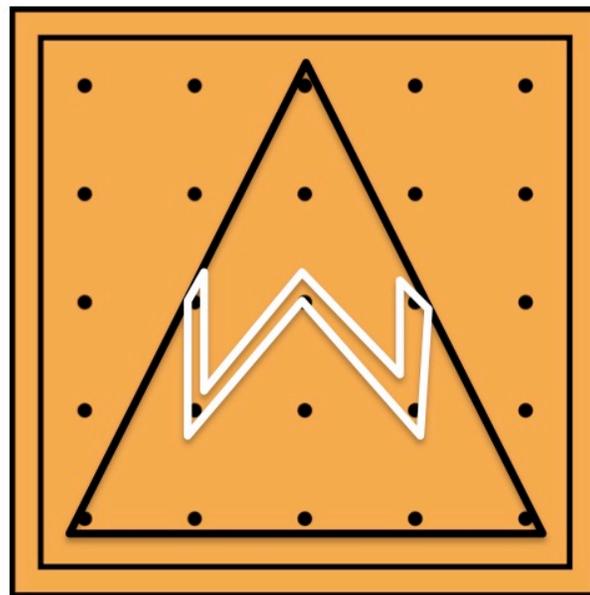
Tic Tac Toe Board

H



Tree

I



Snow Topped Mountain

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