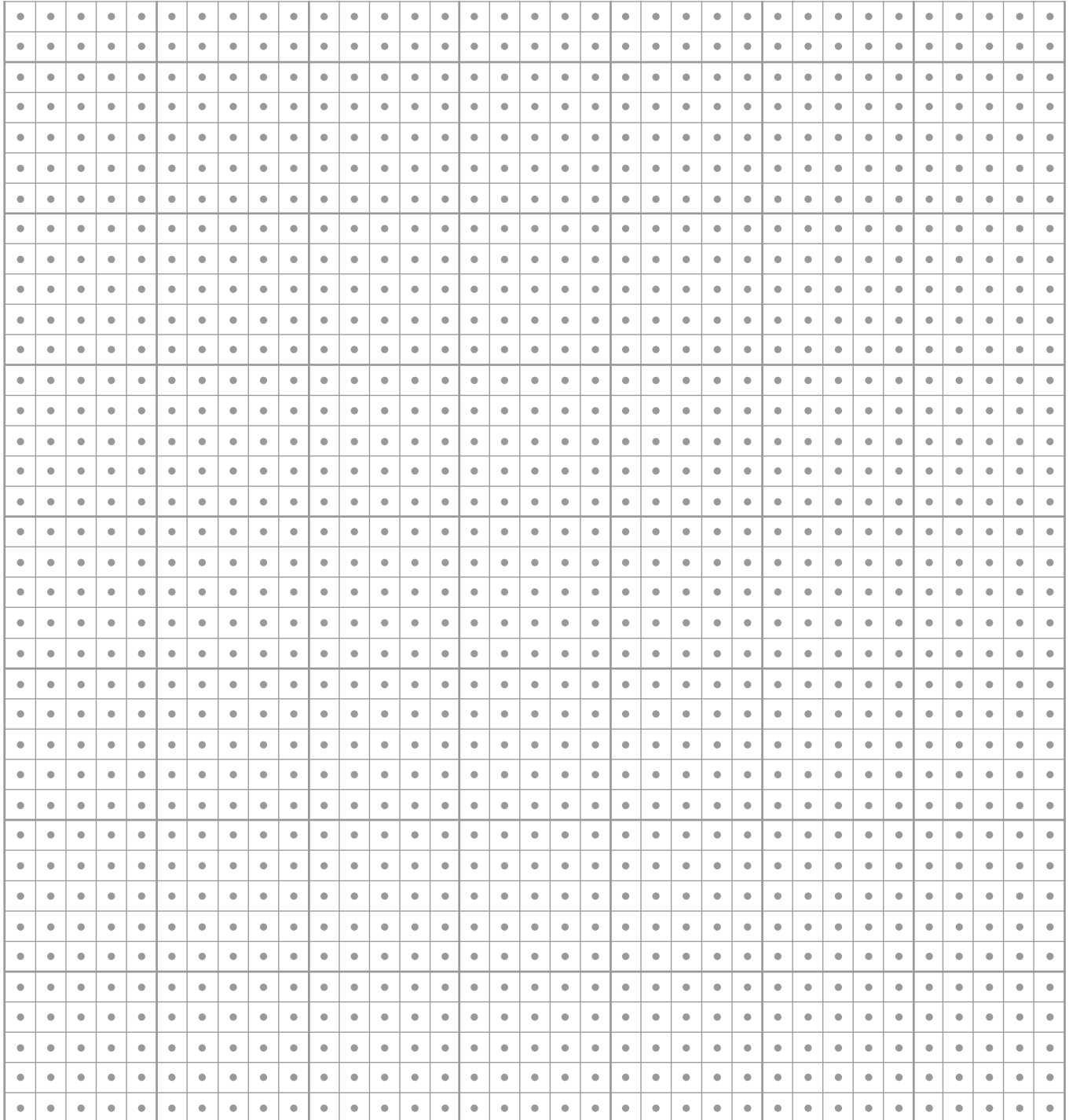


Be an Engineer!

Create Your Own City

With a partner, take turns drawing roads, buildings, bridges, and landmarks on the graph paper to create a city. Just like engineers!



Battleships

1. Two players each make four ships on their own graph paper, using 4 boxes for each ship.
2. Using the column letters and row numbers (such as F12), guess where your opponent's ships are. Cross out the misses and circle the hits. The first to sink all your opponent's ships wins!

Your Graph Paper

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

Opponent's Graph Paper

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

Word Find

Word Bank

Engineer

Solar

Light Rail

Playground

Building

Wind Turbine

Airport

Bus

Bridge

Sewer

Park

Tunnel

Road

Water Pipe

Bike Trail

Traffic

Environment

Electric

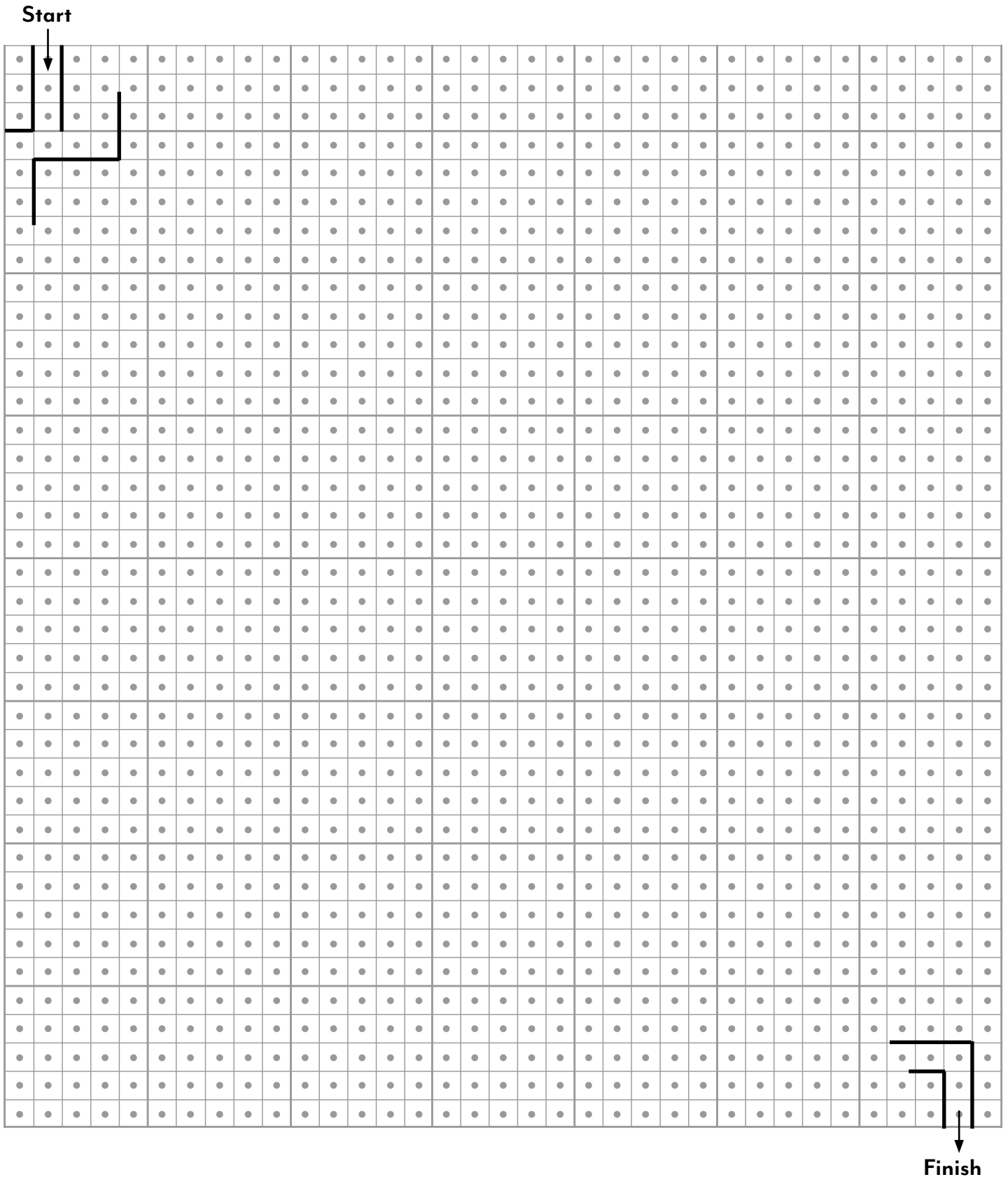
Skyscraper

Pedestrian

R N Y T D P L A Y G R O U N D
L I N A I R T S E D E P L E F
V P L E N N U T I J P F I N J
C P R W A T E R P I P E M V V
A C T Y V Z U P U J T M M I H
R H S E F P Z A D E J Q G R Q
U C B U P A M R U N B S R O N
L I I T B R D E U D W O L N Q
Y R K F N K V E V C A D B M S
E T E N B H K N R D L L U E K
G C T F W H V I A L S I I N Y
A E R E X S B G L H F A L T S
I L A S Z E A N O Y A R D Q C
R E I A E I Z E S L K T I V R
P Z L N E W B K E Y M H N Q A
O Z V Z S C E G E C I G G T P
R V L H M P D R Q O P I V G E
T T J B K I T B O S Z L I L R
V I M I R L A F T R A F F I C
O T D B W I N D T U R B I N E

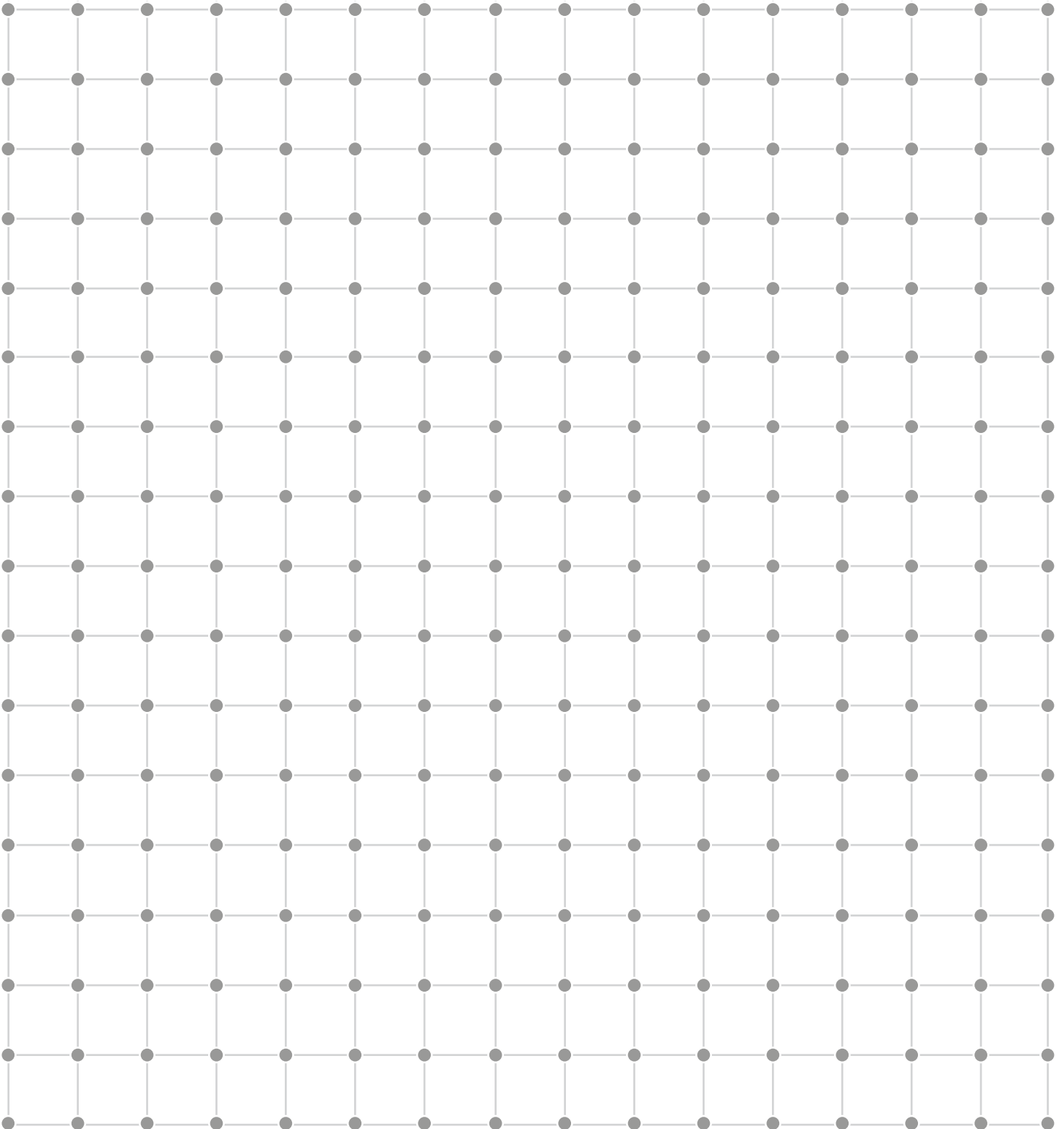
Create a Maze

1. Draws lines and patterns to create a maze.
2. Challenge a friend to navigate the maze from start to finish.



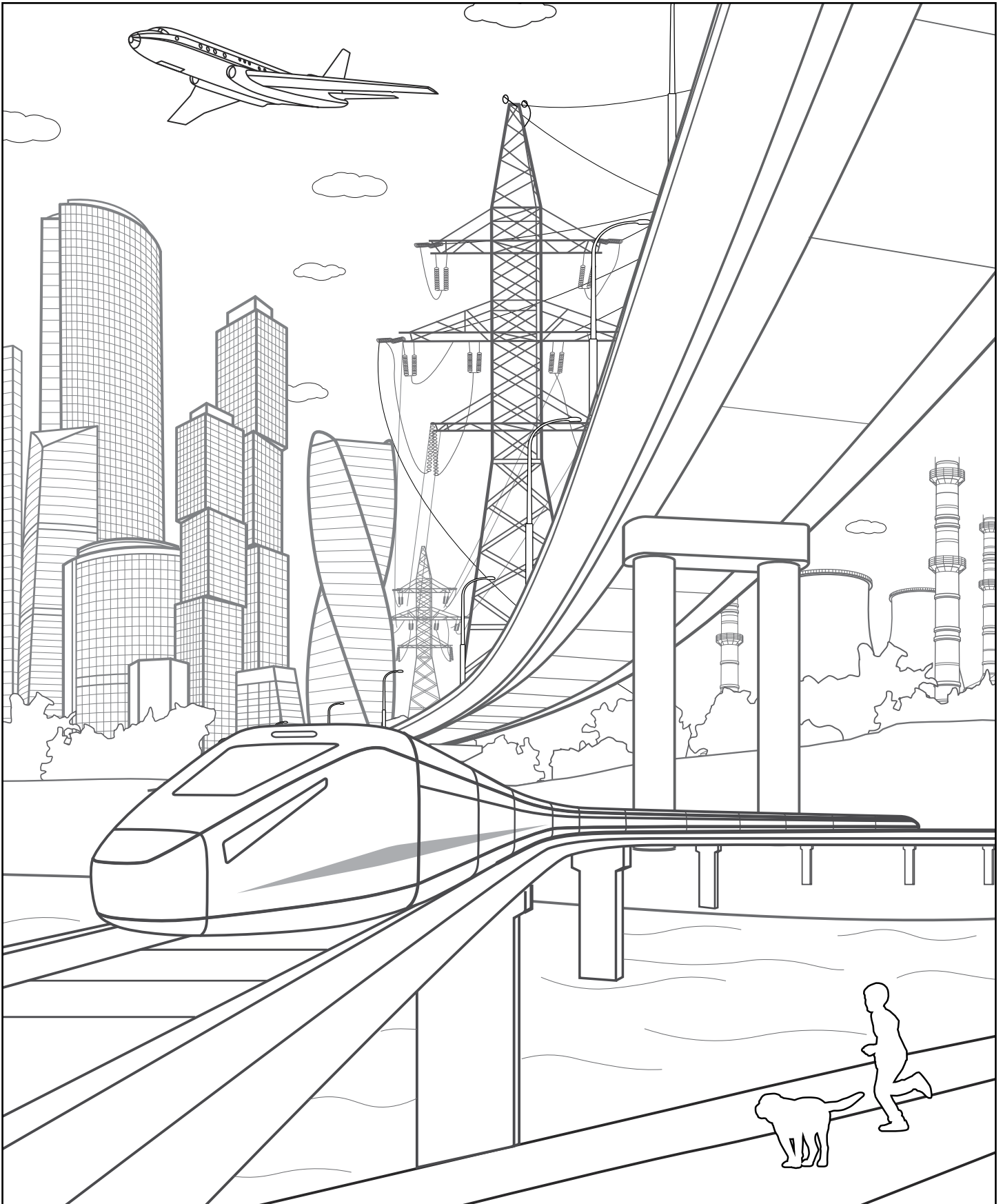
Dots and Boxes

1. With a partner, take turns drawing horizontal or vertical lines connecting two dots next to each other.
2. If your line creates a closed box, put your initials in the box and take another turn.
3. When all the boxes are used, whoever finished the most wins!



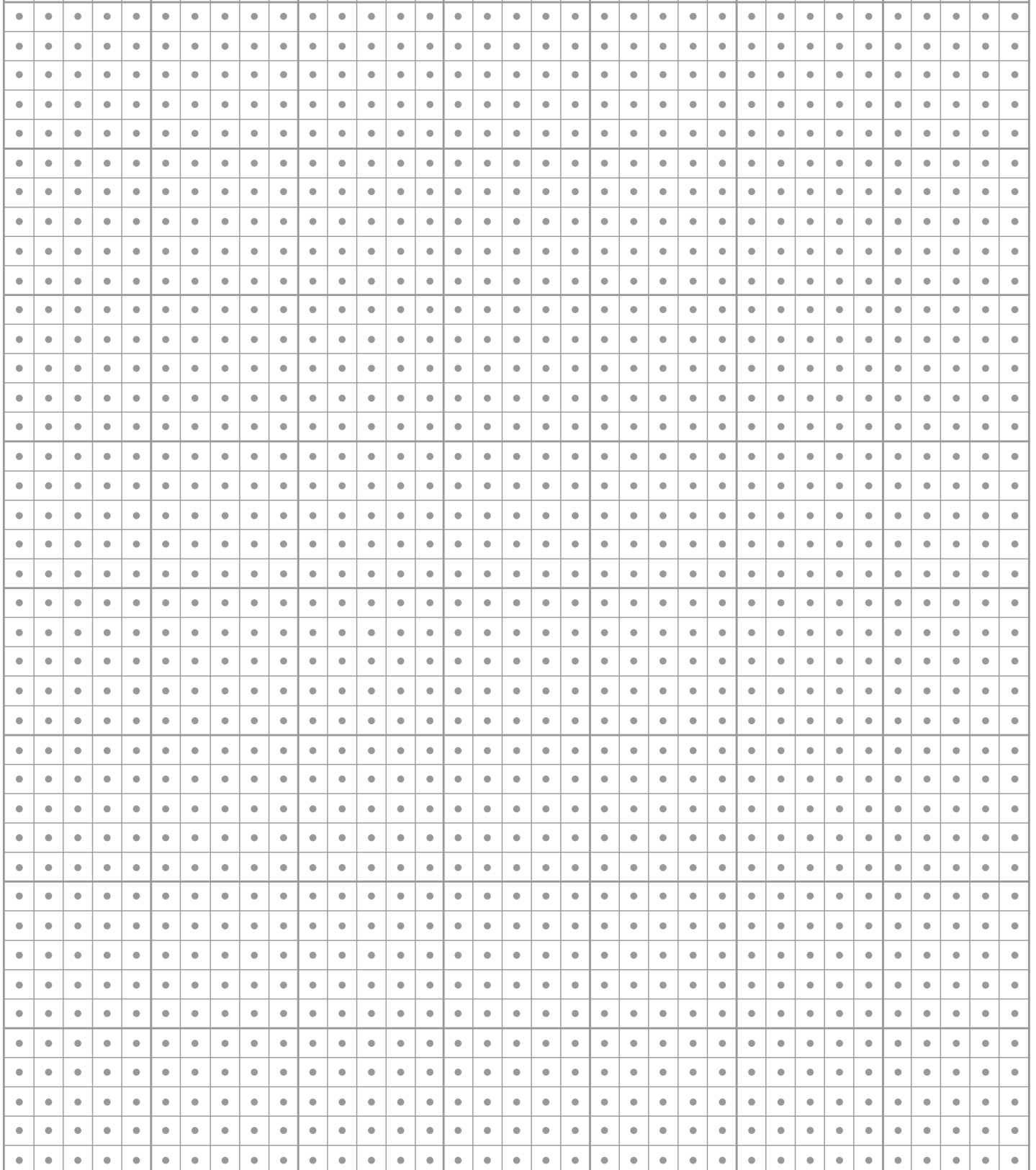
Coloring Page

Engineers work on all the things you see below, and more!



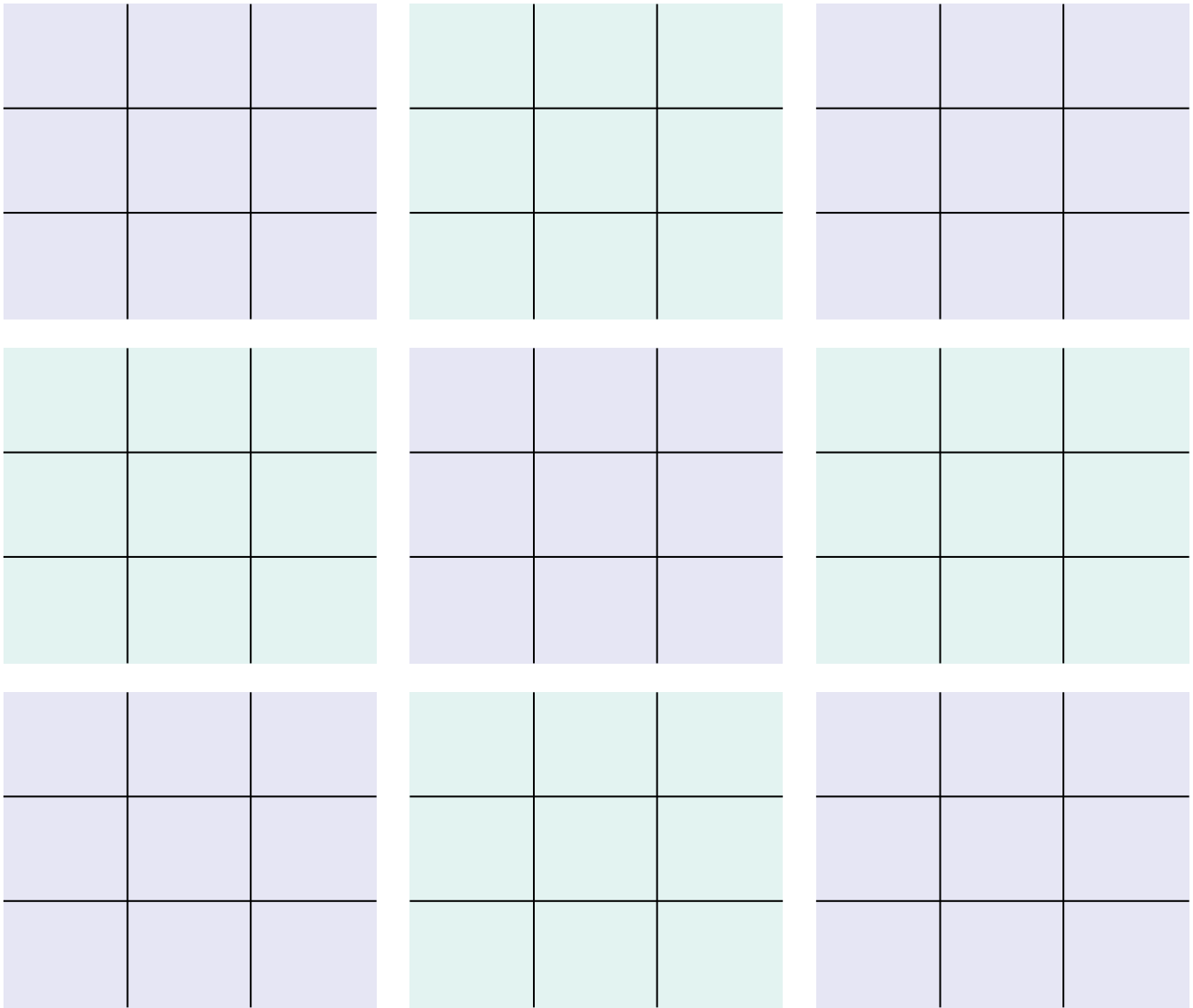
Build a Building

1. First draw the inside of your building. What are the parts that will hold the building up?
2. Then draw the outside. How does it work with the inside?



Tic-Tac-Toe

1. One player is X, and one player is O.
2. Take turns placing Xs and Os until one player gets three in a row horizontally, vertically, or diagonally.



**ENGINEERING
EDUCATION**

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