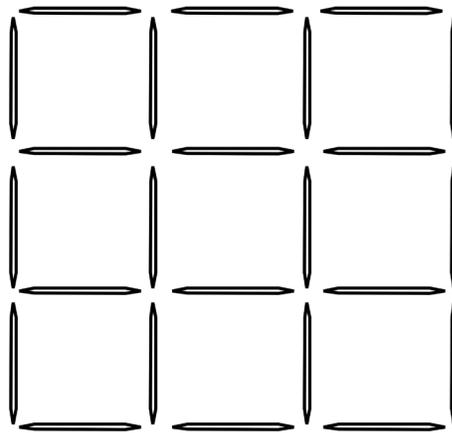




Toothpick Squares Talk Handout

This square is made of toothpicks.

Do all the work in your notebook



Build and draw the previous square and the next square in the pattern. A 2 by 2 and a 4 by 4. Sketch how you grouped the toothpicks:

- How would you describe how many toothpicks you would need to make a 13 by 13 square?
- If you have a box of 250 toothpicks, what is the largest sized square you could build?
- How many toothpicks would you need to make any sized square? Create an expression and color code the diagram that matches and shows how you counted toothpicks.

Extensions

- If there were marshmallows connecting the toothpicks, how many marshmallows would you need for different sized squares?
- What if this were toothpick cubes? How many toothpicks would you need to build a 3 by 3 by 3 toothpick cube? How many marshmallows? How many toothpicks would you need for any size cube?