In today’s game, we will compete to connect the dots to draw squares on dot paper.

You Will Need:
- Two players
- Many different pieces of dot paper
  The game board we will use is 4 dots by 4 dots, but you can play with other boards as well.
- A pencil

How to Play:
1. Start with a piece of dot paper that is 4 dots by 4 dots.
2. The two players take turns circling dots on the dot paper. Decide which player will go first.
3. On your turn, you start by circling one dot that has not yet been circled. You then try to make a square by connecting 4 circled dots on the board.

   Below are some examples of squares. Notice that squares can be different sizes and orientations.

   ![Example Squares]

4. The first player to successfully make a square wins.

Variations:
A. Play the same game but keep track (using different coloured pens or pencil crayons) of which dot is circled by which player. In this variation, each player can only make a square using their own circled dots.

B. Play the same game but instead of stopping after the first square is drawn, continue until all dots have been circled. The player who made the most squares in total wins the game.

   Note that players can make more than one square on a turn. Each square drawn must be a new square, but can share vertices with an existing square and/or overlap with an existing square.

Follow-up Questions:
1. How many different squares are there on a 4 dots by 4 dots game board?
2. How many different squares are there on a 5 dots by 5 dots game board?

More Info:
Check out the CEMC at Home webpage on Monday, May 4 for a solution to Keepin’ It Square.