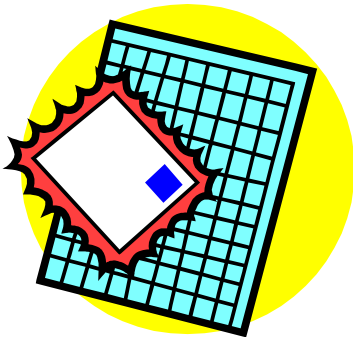
Are you FUNCTIONing?



Object: To locate points on a coordinate plane using the given domain and range of a set of numbers.

To determine whether or not a table of x and y values is a function using the vertical line test.

Players: 2-6, Working with a partner if possible

Materials:
*Coordinate plane (1 per pair of students)
*6-10 tables of x & y values
*Bag or container for pulling of the tables
*Opaque, round counters such as bingo markers (bag of 10)
*Opaque ruler (1 per pair of students)
*Sheet of paper and pencil for the timekeeper to keep track of points

Directions:

1. Each pair of students receives a coordinate graph, an opaque ruler, and a bag of opaque counters.
2. All students place hands on shoulders.
3. The leader begins the game by pulling one of the tables of x & y values out of the bag.
4. All pairs of students race to see who is first to place the counters on top of all of the points in the table.
5. When the pair has located all the points, they place both hands on their shoulders to single to the leader they have finished.
6. If they have located and placed all the opaque disks on the points correctly they receive 3 points for finishing first. All pairs who have the points located correctly receive 1 point.
7. Each pair who can prove to the entire group whether or not the relation is a function using the opaque ruler and the vertical line rule, receives an additional point.
8. Play continues with the winning pair pulling the next set of values.