

Activity: The Human Graph

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Skill:

SPI 0606.3.9: Graph ordered pairs of integers in all four quadrants of the Cartesian coordinate system.

Materials Needed:

a large open area/room at school with a tile floor, colored tape, $8\frac{1}{2}$ x 11 signs for the X-axis, Y-axis, Quadrant I, Quadrant II, Quadrant III, Quadrant IV and the Point of Origin, an index card for every student with coordinates that need to be graphed

Process:

- 1. Prior to class lay colored tape on the floor to represent the X-axis and Y-axis. The floor now represents a large sheet of graph paper.**
- 2. On the day of class, have individual students label the X-axis, Y-axis, Quadrants I, II, III, IV, and the Point of Origin with the pre-made signs by laying the signs on the floor graph paper.**
- 3. One-by-one call the students up to the Point of Origin and give them an index card with coordinates that they must graph themselves. All of the students should watch to make sure the student goes to the correct location. Once the student has moved to the correct location on the graph, have the students name the quadrant the student is in. After a few students have graphed their coordinates, you can have the students predict what quadrant they think the student will be in before their coordinates are graphed. Be sure to discuss what kind of X numbers and Y numbers are in each quadrant.**