

How To (continued):

6. Divide your friends into two teams. Have no more than 10 members from each team pick a coordinates to stand or sit in, depending how tall your middle divider is. Do not allow the other team to see your placements.
7. Now, have someone from team 1 roll the dice. The first value rolled will be the x-coordinate and the second value rolled will be the y-coordinate. If someone is standing on the coordinate pair rolled, they yell, "hit" and they are out! If no one is standing on the coordinate pair, place a color counter to mark the place and the team yells, "miss".
8. Teams take turns rolling the dice. The game is over when all members from one team have been 'torpedoed!'

The STEM Explanation:

The coordinate plane is formed by two number lines. The horizontal number line is called the x-axis and the vertical number line is the y-axis. They intersect at a point called the origin or (0,0), which is given in the (x,y) format. The first value is the x-coordinate, which is how many spaces to move right (positive), or left (negative). The second value in a coordinate pair is the y-coordinate. This coordinate describes how many spaces you move up (positive) or down (negative).

Career Connection:

Urban planners create plans for the use of land within a city. After they understand the goals of a project, urban planners collect a lot of data. Using coordinates, they make decisions on the best locations for their plans. After they determine the best use of the land, urban planners normally meet with architects and engineers to start designing the project.

Resources:

- <http://www.scholastic.com/teachers/article/dice-games-build-math-skills>
- <http://www.curriculumbits.com/prodimages/details/maths/mat0005.html>
- <http://resources.alljobopenings.com/urban-planners>

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