

Teacher:

LeRay Kious

Grade:

5th Grade

Curriculum Topic:

Geometry - Graph points on the coordinate plane to solve real-world and mathematical problems (Math)

Tools:

Bee-Bot

<https://www.bee-bot.us/>

Google Docs

<https://www.google.com/docs/about/>

Tablet

<https://www.apple.com/ipad-mini/>

Synopsis:

The teacher will briefly introduce the coordinate plane and how to read coordinates (X,Y). Everyone will go outside on the sidewalk. There will be a coordinate plane taped on the ground (the lengths between coordinates will be the same as one click of the Bee-Bot) and a Bee-Bot for each group. Each group (of three students) will use their personal tablets to work on a shared Google Doc. They will solve 6 real-world word problems to find coordinates and program the Bee-Bot to go to the corresponding location in the first quadrant of the coordinate plane. They will then take photos and upload it in their Google Doc as the answers to their math problems. The groups can rotate: one student can solve the problem, one program the Bee-Bot, and one take the photo. The groups will then create 3 problems with coordinates in the first quadrant themselves and send them to another peer group. Students will repeat the process, but with their peer's coordinates.

Inside, the teacher will download random photos from the Google Docs and put them on the SmartBoard. The class will call out the coordinates in an informal quiz.