AMAZON PBL

Created by: Rebecca Marx
Subject: Math
Standard: 6.NS.C.8

Other — Hook

Students will...
Students will read an article and watch a video about drones that are being used by Domino's in order to deliver pizzas to their customers. Students also learned about the robots at the beginning of the number system unit in order to get them excited about the project at the end of the unit.

Other — Inform

Students will...
Students will practice finding distance on a coordinate plane. Students will learn the four quadrants and will practice plotting points within the coordinate plane. They will also learn about how to program the robot in order to turn the robots and travel distances along the coordinate plane.

Do Groupwork — Practice

In groups, students will...
Students will work with their groups to determine which deliveries will be made in which order. Students will be given 9 places on the coordinate plane. The groups will be making three deliveries. Each delivery needs to go to three different places on the coordinate plane. The groups will need to decide which three places to be delivered together and then determine how their robot will travel from the origin of the graph to the three deliveries and then back to the origin. The students will have multiple attempts to practice these delivery routes.

Demonstrate — Apply

Students will demonstrate...
When students have determined the best way to program their robots to bring packages to the three different points on the coordinate plane, they will demonstrate their findings to the teacher to be checked off. When they have the first route finished, they will use the same process to complete the other two routes.

Extension: If students successfully program all three routes on the coordinate plane, they can either attempt to program the robot to make all nine routes without returning to the warehouse or program one robot to make all the deliveries, including the three returns to the warehouse.