

About the Drone Challenge

This drone online challenge is about repurposing previous game objects to make something creative, helpful, and fun. You can use all the game pieces you have from all the previous games. You can also use the game piece in different ways than how they were used in their past game. We will be creating a drone challenge obstacle course with old game pieces for our submission. Then, we thought of objects from other games that we can use in our new challenge. We tested many objects to see which objects would be best to land, take off from, and go through. Next, we thought of the idea of using the fence from Starstruck as an obstacle to fly through. We knew that this would be a good idea after testing it because the fence is tall enough so the drone would be able to fly through it but it would still be a challenge for the drone not to hit the bottom or top of the fence when it's flying through. We also thought of using the cubes for the drone to fly over. We thought this because the cubes are small enough for the drones to fly over and go around. Next, We brainstormed about using the platforms from Turning Point as start and finish markers for the drone to land and take off from. We used this piece because it is flat and sturdy so it will be easier than other objects for the drone to land on. Lastly, we thought to use the towers from Tower Takeover from the drones to fly around and in between them. We thought this because the towers are tall enough so you could fly the drone around and in between them without the drone crashing into the top of the tower.

About the video Submission

In this video submission, we showed the final version of the field that we created and the obstacles in it. It shows how we arranged the previous game pieces to make a course that a drone could go through that was challenging but a course that you could still complete. We also demonstrated how the drone goes through the obstacles in the course and how it maneuvers through them. Additionally, we showed a simulation of how it would look if you're the drone going through the different kinds of obstacles.

Why this is an important and interesting challenge

This is a good and useful challenge because it shows how you can recycle pieces and materials to make something cool and creative. Additionally, it was cool to learn how to code and fly the drone to make it be able to go through different objects. It was also fun because the objects in the challenge were at different heights, shapes, and sizes so it was cool to fly through. Adding on, the challenge is designed to be able to be done anywhere even in small rooms and areas and even with limited materials.