

## Drones in the Classroom

### Challenge: Use a drone to survey a field

*Can your drone team successfully program and fly a drone to survey a field of crops for stress in plant life?*

#### **As a class:**

1. Create the simulated field of crops. This can be done in a variety of ways. One option is to use large chart paper or bulletin board paper that is decorated and taped to the floor. Use construction paper to create some “healthy” looking crops and an “unhealthy” area. Another option is use outdoor space and sidewalk chalk to draw out the area.
2. Use the TELLO EDU app or the DRONE BLOCKS app to create programs for flight. The drone should move back and forth across the field in a slow, organized manner to simulate the capturing of footage. Create pause commands and rotate the drone appropriately through the coding.
3. Test programs for flight.
4. Program the drone to not only fly successfully in a back and forth manner across the simulated field, but also capture photos of the field to share on the board.
5. **Celebrate successful flights!**

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