



# MUSICAL DRONES

Musical Drones turns drone piloting into a thrilling game where players improve flying skills with musical cues. It boosts reflexes, spatial awareness, and focuses on landing and take off. This hands-on approach fosters a love for STEM through engaging play, teaching teamwork and problem-solving along the way.

## PREFLIGHT CHECKLIST

Activity Type	Competitive
Activity Time	5-10 Mins
Student Groups of	Up to 6 at a time
Difficulty	Easy
Supplies	Safety Gear, Drone, Controller, Batteries, Landing Pads, Music
Designated Flight Area	Clear area free of obstructions and moving air. Recommend at least 10x10 ft.

### Site Safety Inspection

- ✔ Designate flight area
- ✔ Place signage and ensure area remains clear

### Preflight Inspections

- ✔ Inspect drone for any damage
- ✔ Debris or hair in the motors
- ✔ Inspect battery and verify voltage
- ✔ Insert battery until fully seated
- ✔ Connect and verify battery
- ✔ Apply safety gear

## STEP #1

Lay out as many landing pads as you have pilots.



## **STEP #2**

Have pilots begin the binding procedure one at a time.  
Binding procedure can be found [here](#).

## **STEP #3**

Once the music begins, have the pilots take off and fly around. Pilots should not hover over landing pads. Inflatable gates can be used to set a flight path.

## **STEP #4**

Randomly pause the music. Once paused pilots should attempt to land on a landing pad.

## **STEP #5**

Pilots who land on a landing pad (1 per drone), receives a point. One landing gear must be on the pad to count as a point. If two drones are on the same landing pad, the drone with the most landing gear on the landing pads receives the point.

## **STEP #6**

Before pilots take back off, remove one landing pad. Then restart the music and have the pilots take off again. Repeat these rounds until only one landing pad is left.

## **STEP #7**

Repeat this activity with each group and track their scores on the included student score sheet.

# ROCKET DRONES SCORE SHEET

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## MUSICAL DRONES

Student Name	Round 1	Round 2	Round 3	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				

Highest score wins!!!