



DRONE GOLF

In this activity, students use IR sensors to control a drone with landing pads. Students They maneuver the drones without touching them, learning about sensor technology and basic physics like motion and reaction.

Activity Type	Competitive
Activity Time	5-10 Mins
Student Groups of	5 (1 pilot)
Difficulty	Hard
Supplies	Safety Gear, Drone, Controller, Batteries, Landing Pads, Tape measure
Designated Flight Area	Clear area free of obstructions and moving air. Recommend atleast 10x10 ft.

PREFLIGHT CHECKLIST

Site Safety Inspection	
✔ Designate flight area	<input type="checkbox"/>
✔ Place signage and ensure area remains clear	<input type="checkbox"/>
Preflight Inspections	
✔ Inspect drone for any damage	<input type="checkbox"/>
✔ Debris or hair in the motors	<input type="checkbox"/>
✔ Inspect battery and verify voltage	<input type="checkbox"/>
✔ Insert battery until fully seated	<input type="checkbox"/>
✔ Connect and verify battery	<input type="checkbox"/>
✔ Apply safety gear	<input type="checkbox"/>

**Safety glasses must be worn by all participants.
Long hair or loose clothes should be secured.**

STEP #1

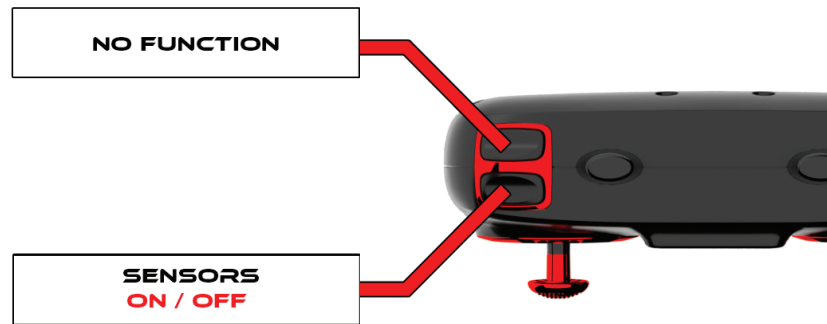
Set up the circle gate. take off area. Place team members around the course even distributed with landing pads.

STEP #2

Have pilots begin the binding procedure one at a time.
Binding procedure can be found here.

STEP #3

Pilots should take off and fly towards the first team member. Once the pilot is in position, activate sensor mode by pressing the button located on the top left bumper of the controller. Pilots should release controls and allow the students with landing pads to control the drone.



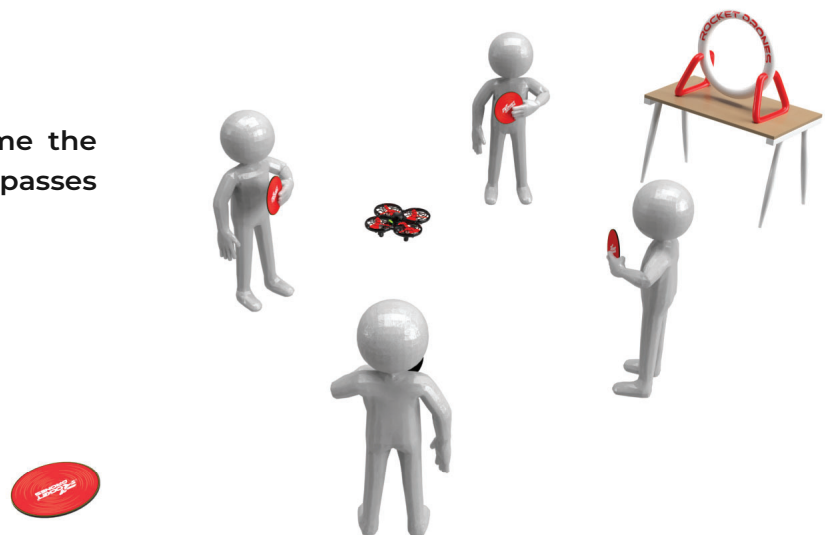
Do not touch or hit the drones with the landing pads.

STEP #4

Students with landing pads will then attempt to move the drone using the IR sensor towards the next closest team member to the circle gate.

STEP #5

One point is recieved for each time the drone moves from a gesture until it passes through the circle gate.



ROCKET DRONES SCORE SHEET

DRONE GOLF

Team Name	Round 1	Round 2	Round 3	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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19.				
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21.				
22.				
23.				
24.				

Lowest score wins!!!