

## DRONE MASTERS CHALLENGE



### PROBLEM STATEMENT

The teams have to create a drone with a payload of 150 grams, that is capable of picking objects up and placing them at their respective drop spots with precision and accuracy.

### DRONE SPECIFICATION

- The drone can only have a frame of 5 inches or less (excluding the dimensions of the propellers).
- Terminal potential difference must not exceed 24 Volts.
- The drone must weigh less than 1.5 kgs and have a tolerance of 300 grams.
- It can have any pick and place mechanism and it should be able to carry 150 grams.





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## GUIDELINES

- Each team should comprise of maximum 3 participants
- A designated path must be followed by the drone on day 2
- If the box is placed perfectly, then 5 points will be allotted to the team.
- If the box is placed with some portion being outside, then 3 points will be allotted.
- If only some portion is inside the place mark, then 1 mark will be allotted.
- The marks for timing are given below: -

<b>Under 1 minute</b>	<b>50 points</b>
<b>Under 2 minutes</b>	<b>40 points</b>
<b>Under 3 minutes</b>	<b>30 points</b>
<b>Under 4 minutes</b>	<b>20 points</b>
<b>Under 5 minutes</b>	<b>10 points</b>
<b>Above 5 minutes</b>	<b>0 points</b>

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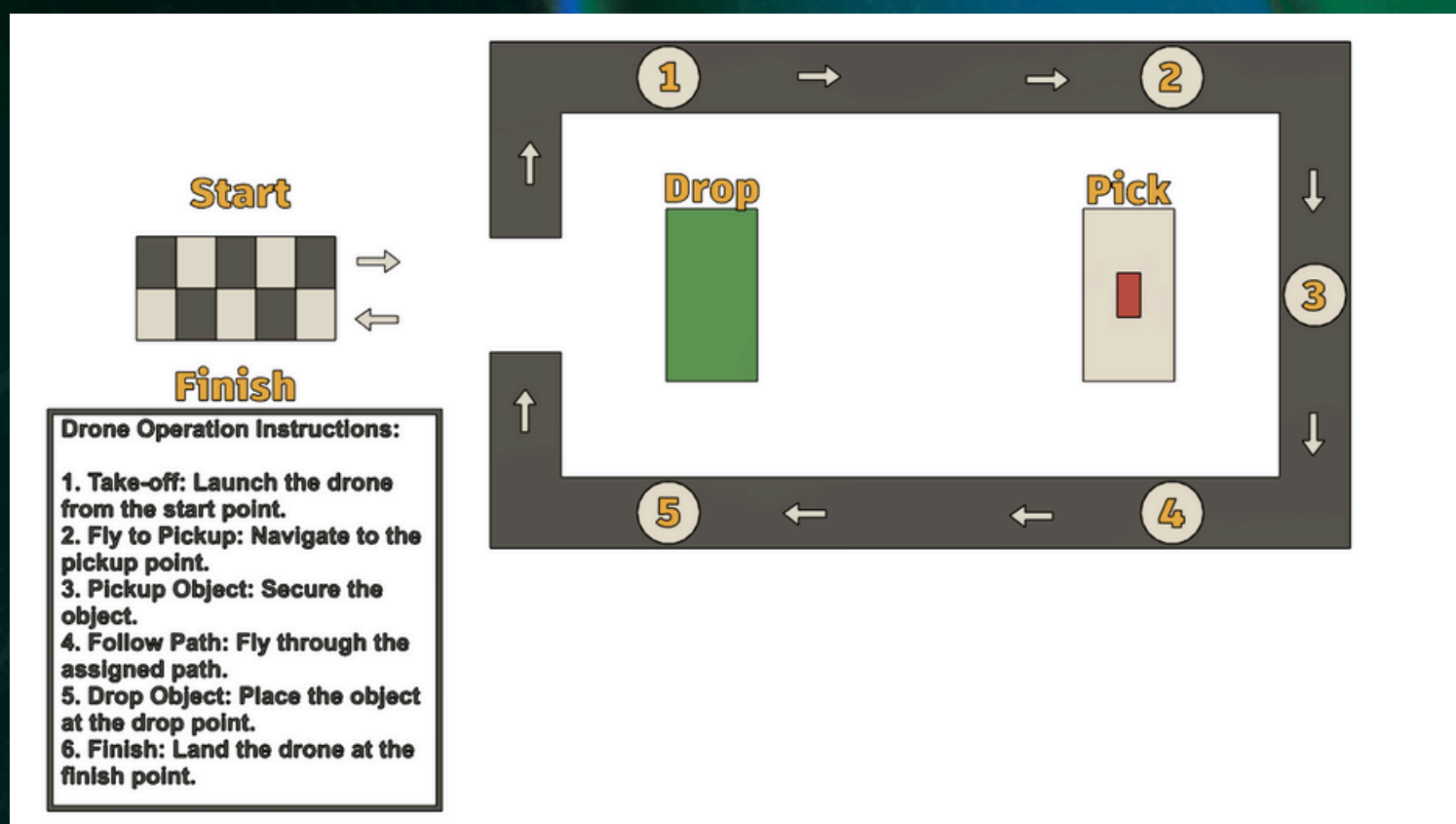
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## ARENA: DAY 1



## ARENA: DAY 2

- The arena for Day 2 will be revealed on the day of the event to the teams who have qualified.

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