

# 2024 UAS4STEM Competition Highlights (Team SAR)

## Competition Schedule

<b>Monday, July 22, 2024</b>	
0800-0820: MANDATORY SAFETY BRIEF [DEPOT]	
FLIGHT OPERATIONS [DEPOT]	
TRACK A ADVANCED TEAMS	TRACK B ADVANCED TEAMS
0830-0925: MCINTOSH AERONAUTICS	0900-0955: <b>SOME ASSEMBLY REQUIRED</b>
0930-1025: ST. MARY'S CAP	1000-1055: MIDTOWN MAVERICKS
1030-1125: BUMBLEBEES	1100-1155: REDSTONE ADVANCED
<b>Tuesday, July 23, 2024</b>	
0800-0820: SAFETY BRIEF (mandatory for teams who have not flown yet) [DEPOT]	
FLIGHT READINESS REVIEWS [EAA MUSEUM Batten Board Room]	
0900-0930: REDSTONE ADVANCED	
1000-1030: <b>SOME ASSEMBLY REQUIRED</b>	
1030-1100: MCINTOSH AERONAUTICS	
1100-1130: ST. MARY'S CAP	
1130-1200: MIDTOWN MAVERICKS	
1200-1230: BUMBLEBEES	
1230-1500: Flex time for weather	

## Maximum Flight Altitude

- 200 ft. AGL, except when engaging with a target

## Maximum Video Tx Power

- 250mw

## Advanced Teams

- Redstone Advanced
- Some Assembly Required
- McIntosh Aeronautics
- St. Mary's Civil Air Patrol (CAP)
- Midtown Mavericks
- Bumblebees

## QR Codes Decoded

- [https://amablog.modelaircraft.org/uas4stem/TARGET\\_0x](https://amablog.modelaircraft.org/uas4stem/TARGET_0x) (Pick-Up/**BLACK**)
  - 01 = water, 02 = med kit, 03 = candy bar
- [https://amablog.modelaircraft.org/uas4stem/DELIVERY\\_0x](https://amablog.modelaircraft.org/uas4stem/DELIVERY_0x) (**RED**)
  - 01 = water, 02 = med kit, 03 = candy bar
- [https://amablog.modelaircraft.org/uas4stem/DELIVERY\\_MOVER](https://amablog.modelaircraft.org/uas4stem/DELIVERY_MOVER) (**RED**)

## Payload Delivery Scoring

For each attempted target delivery (measured from center of each target to the nearest point of payload):

STATIONARY TARGETS:

0 ft. to 2 ft. = 10 points

2 ft. to 4 ft. = 8 points

4 ft. to 6 ft. = 6 points

6 ft. to 8 ft. = 4 points

8 ft. to 10 ft. = 2 points

MOVING TARGET:

Payload misses target = 0 points

Payload contacts target = 5 points

If payload remains on target, additional points are awarded as follows:

0 in. to 5 in. = 15 points

5 in. to 10 in. = 14 points

10 in. to 15 in. = 13 points

15 in. to 20 in. = 12 points

20 in. to target edge = 11 points

Maximum 40 points

## Beginner Teams

- Redstone Bravo
- Cornographers
- 55 Knights
- The Flying Nuggets
- Hardin Valley Aerohatchling