



SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT SEPTEMBER 6, 2026

11:00AM TO 2:30PM NAR SECTION #624

Launch Conditions: clear skies, temps in high 80s, wind gust to 11mph

Total Number of Launches: 24 **Rockets Recovered:** 23 **Lost:** 1 **Found Rocket (not launched today):** 0

Total Number of 100% Fully Successful Flights: 21 **Success Rate:** 87.5%

Number of Individuals Who Launched Their Rockets: 6 **Number of Family/Friends/Observers:** 10

Number of First-Time flyers: 1 **Teams and Competitions:** 0 **NARTREK:** 2

Scouts/Home School/4-H Groups: 0

Types and Number of Motors: 26 total

Micro	1/4A	1/2A	A	B	C	D	E	F	G
0	0	0	5	8	9	1	1	2	0

2-motor clustered rocket	0		Two-stage rocket	2
3-motor clustered rocket	0		Three-stage rocket	0
Other: 0				

Total Impulse: 272.0 N-s (previous launch had 568.7 N-s Total Impulse)

(Note: the mid-point of each impulse range for a motor class is used)

Year To Date Total Impulse: 3195.3 N-s

Failures: 3 total 1 chute tangle, 1 rocket lost, 1 chute not ejected

Ground Fires: 0 **Damage to vehicles/facilities:** 0 **Medical Incidents:** 0

FINANCES:

ITEM	COST EACH	# PURCHASED	TOTAL INCOME
Straight out donations	NA	14	\$14
t-shirts	\$15	0	\$0
Polo shirts	\$30	0	\$0
Baseball Caps	\$14	0	\$0
Food and Drinks	\$1	8	\$8
Stickers	\$0.25	0	\$0
Mugs	\$10	0	\$0
New/Renew Memberships	\$5	1	\$5
TOTAL			\$27

4 stickers given away to a family with young children for free. You never know if a simple gesture might lead someone to a future scientific career!

Rocket Topics and Issues:

1. It was a nice day for a launch with clear skies. There were a few delays due to gust so wind but not a big problem.
2. Justin and Will Snyder joined the club and Will launched his first rocket ever. Welcome and congrats!
3. Brian launched two rockets with unusual characteristics. His Disintegrator 1 scratch-built rocket was designed to come apart into four sections with the airframe splitting lengthwise. His scratch-built Semi-Scale V2 carried a payload of streamers that deployed separately from the rocket so that rocketeers could see what the winds were doing above the launch field. Very informative for helping determine parachute size and rocket drift for later launches.
4. Jake successfully completed his NARTREK Jr. Intermediate requirements. Well done!
5. Had an issue with the high-power pad with sporadic continuity. Traced it back to the electrical cord being partially burned through from a previous launch. Will repair.
6. The weed gods were out to get us. Luckily Rick's MadCow Momba and Bill's Mighty Mouse were retrieved after a lengthy search later in the day.
7. Thanks to Gary and Rick for taking turns running Range Safety and Launch Control.

Next meeting: Tuesday, October 1st at 6:00PM - 7:30PM. Lebanon Library lower-level meeting room.

Next Launch: October 11th. Meet at Hisey Park. Setup 9:30AM, launch 11:00AM

Please remember to renew your SORA membership for 2026. It's a great club!

Also, please renew your membership to NAR!



Dave and his Nike Smoke



Brian's Disintegrator 1 rocket designed to break apart into four tethered pieces



Oops. Missed that launch photo...



Angled to the northeast to compensate for drift



Scratch-built and perfectd flight



Harold blue on blue



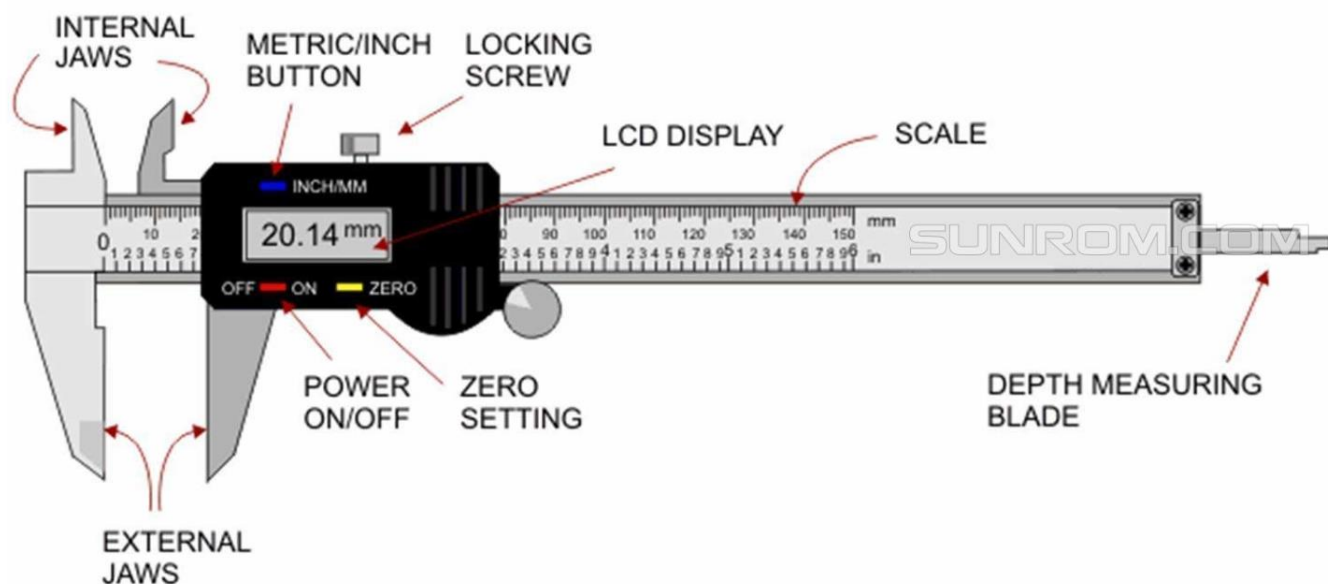
Searching using a drone to retrieve two rockets and 10,000 burrs



Brian's Astrocam video shot mid-flight

FUN FACT: Digital Caliper

One of the most useful tools for a rocketeer is a digital caliper. Being highly precise for measuring dimensions (length, internal diameter, external diameter, etc.), they are easy to read and have a variety of measurement modes from inches, fractional inches, millimeters. Etc. They are often made of hardened stainless steel and a medium quality caliper can be purchased for around \$25



Outside Measurements



Inside Measurements



Step Measurements



Depth Measurements

The Club's Motto.....“Sapientia ducet ad astra” – “Wisdom leads to the stars!”