

STUDENT ROCKET LAUNCH GUIDE

#StudentsRockIt

Launch Day Schedule

Saturday, July 18

Payload Team Arrival: 7:30 a.m. MDT

Gates Open: 7:30 a.m. MDT

Safety Briefing: 8 a.m. MDT

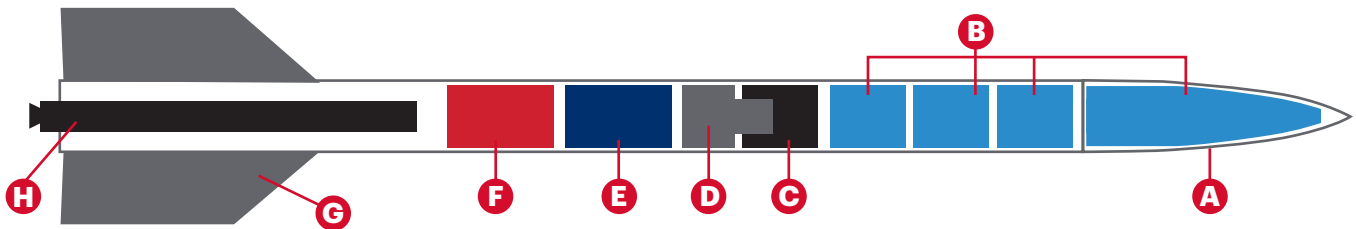
ULA Rocket Launch: 10 a.m. MDT

Additional launches will be happening throughout the day

*Times are approximate and subject to change

Inside Each Rocket

- A.** Nose Cone
- B.** Payloads
- C.** Piston
- D.** Payload Ejection System
- E.** Airframe Recovery System
- F.** Booster Recovery System
- G.** Fins
- H.** Motor



Technical Specs

- Height:** 13 ft (3.96 m)
- Diameter:** 7.75 in (2.36 m)
- Liftoff Mass:** 92.2 lbs (41.8 kg)
- Initial Thrust:** 610 lbf (2,710 N)
- Average Thrust:** 562 lbf (2,500 N)
- Total Impulse:** 2,174 lbf*sec (9,671 N*s)
- Performance:**
 - 0 to 60 mph (96.6 kph) in 0.5 sec
 - 0 to 200 mph (321.9 kph) in 1.6 sec
 - 0 to 535 mph (861 kph) in 5.5 sec
- Altitude Target:** 8,500 ft (2,590 m)
- Liftoff Forward Axial Accel.:** 6 Gs

Payload Teams

The Manning School of Academics and Arts
Golden, CO

North Star Academy
Parker, CO

Science Academy STEM Magnet
North Hollywood, CA

Vestavia Hills Elementary Dolly Ridge
Vestavia Hills, AL

Cub Scout Pack 667
Arvada, CO



BAE SYSTEMS

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What You Need to Know

Please note: The launch site is an active horse and cattle ranch. Please close and secure the gate immediately after passing through. Please ensure cattle or horses near the gate do not escape. Failure to comply jeopardizes future use of this location. A gate attendant will be available to assist however, if you are unable to enter due to livestock near the gate, please call or text 919.710.6478.

- Bring sunscreen, hats, folding chairs, portable shade, cameras, binoculars and wear sturdy, closed-toe shoes
- You may bring your own water, food and snacks
- Alcohol, smoking materials, weapons, drones and drugs are prohibited
- Children must be supervised at all times
- Port-a-potties and handwashing stations will be available on-site
- The launch site is wheelchair accessible
- Please pick up your trash and help us leave Hudson Ranch even cleaner than when we arrived
- Please join us in thanking our event hosts, the Southern Colorado Rocketeers (SCORE) for their time and support
- Follow @ulalaunch on X, Instagram and Facebook

Map/Directions

Use your favorite map app to route to the “Hudson Ranch Rocket Launch Site”

- Take I-25 South to Pueblo
- Take Exit 94 (Pueblo Blvd.)
- Turn right on Pueblo Blvd. and go approximately 3 miles to W. Northern Ave.
- Turn left on W. Northern Ave. (which later becomes Highway 78) and go 9.5 miles
- Look for signage to direct you to the launch site

Total drive time from the intersection of C-470 and I-25 is approximately 1 hour and 50 minutes.



BAE SYSTEMS