

# STUDENT ROCKET LAUNCH GUIDE

#StudentsRockIt  
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## Launch Day Schedule

Saturday, July 15<sup>th</sup>

Gates Open: 9 a.m.

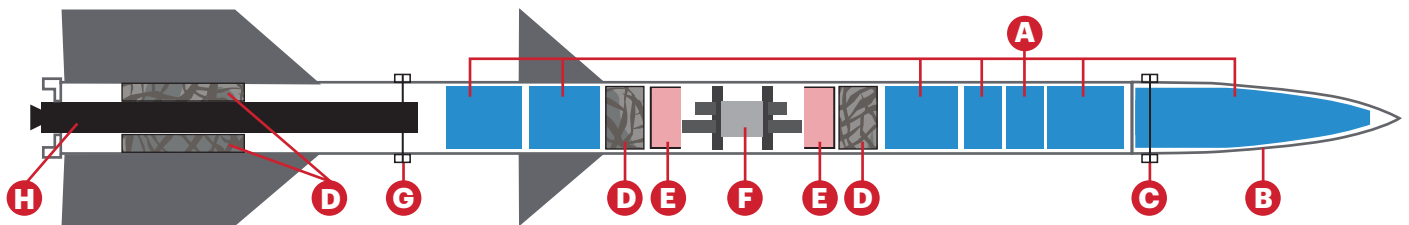
ULA Rocket Launches: 10 a.m. – Noon

Additional Rocket Launches: 10 a.m. – 3 p.m.

\*Times are approximate and subject to change

## Inside Each Rocket

- A.** Payloads
- B.** Nose Cone
- C.** Forward Attach/Separation Bolts
- D.** Parachute and Riser/Shock Cord
- E.** Piston
- F.** Avionics Module
- G.** Aft Attach/Separation Bolts
- H.** Engine



## Technical Specs

<b>Height:</b>	19 ft, 6 in (5.94 m)
<b>Width:</b>	11.7 in (30 cm) diameter
<b>Liftoff Mass:</b>	225 lbs (102.1 kg)
<b>Initial Thrust:</b>	1,067.9 lbs (4,750.3 N)
<b>Average Thrust:</b>	768.1 lb (3416.7 N)
<b>Total Impulse:</b>	21,062 N-s (4735 lb*sec)
<b>Performance:</b>	0 to 325 mph in 5 sec (0 to 523 kph in 5 sec)
<b>Altitude Target:</b>	4,200 ft (1280.2 m)
<b>Liftoff Acceleration:</b>	5 Gs

## Payload Teams

Ball Aerospace — Boulder, Colorado  
Golden High School — Golden, Colorado  
Green Mountain High School — Lakewood, Colorado  
Hackberry Hill Elementary — Arvada, Colorado  
Mad Scientists Club — Harrison, Michigan  
Peak to Peak Charter — Erie, Colorado  
Peak to Peak Charter — Louisville, Colorado  
Rocklin Academy Gateway — Golden, Colorado  
St. Bridget School — Cheshire, Connecticut  
STEM School — Littleton, Colorado  
Vestavia Hills Elementary - Dolly Ridge — Vestavia, Alabama



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## What You Need to Know

- Bring sunscreen, hats, folding chairs, portable shade, cameras, binoculars and wear sturdy, closed-toe shoes
- You may bring your own water, food and snacks
- Pets, 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
- For launch and weather status, visit [twitter.com/ulalaunch](https://twitter.com/ulalaunch), [instagram.com/ulalaunch](https://instagram.com/ulalaunch) or [facebook.com/ulalaunch](https://facebook.com/ulalaunch) — look for the #StudentsRockIt hashtag!

## 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 Hwy 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.

