**Mobile Launcher Platform**

Steel structure used to support NASA's Space Launch System space vehicle which is assembled (stacked) vertically in the Vehicle Assembly Building (VAB) and then transported to launch pad 39B. This platform represents the support structure for launch.

**Crew Access Arm**

As astronauts prepare for trips to destinations beyond low-Earth orbit, their last steps before boarding Orion spacecraft will be across the Crew Access Arm (CAA) on the mobile launcher.

**Mobile Launch Tower**

40 feet square, about 355 feet tall with tower floor levels every 20 feet for personnel access to vehicle and ground support equipment.

**NASA's Mobile Launcher**

National Aeronautics and Space Administration
With the Artemis program, NASA will launch the first woman and next man to the Moon by 2024, using innovative technologies to explore more of the lunar surface than ever before.

Learn more: nasa.gov/artemis

WE ARE GOING!

The Space Launch System
World’s Most Powerful Rocket

The Gateway
Outpost Orbiting the Moon

Artemis Generation
Space Suits

Orion Spacecraft
Designed for Deep Space
1. LET'S DRAW THE MOBILE LAUNCHER!

THE MOBILE LAUNCHER (ML) CAN BE DRAWN USING SIMPLE SHAPES. A RULER WILL HELP KEEP ALL THE LINES STRAIGHT. USING THE PENCIL, DRAW A VERTICAL LINE AND A SERIES OF LINES AND BOXES THAT YOU WILL USE TO CREATE THE BASIC SHAPE OF THE ML STRUCTURE.

YOU WILL USE THE PENCIL TO DRAW THE GUIDELINES AND THE MARKER TO DRAW THE FINAL SHAPES. FOR EVERY STEP, THE CURRENT SHAPES TO BE DRAWN ARE SHOWN IN RED.

SUPPLY LIST
1. PENCIL WITH ERASER
2. BLACK PEN OR MARKER
3. RULER
4. SHEET OF PAPER

DRAW THESE LINES USING A PENCIL
2. ADD THE PLATFORM LINES.

FUN FACT

THERE ARE A TOTAL OF 20 INTERFACES OR UMBILICALS TO THE VEHICLE WHICH CARRY CRITICAL ELEMENTS SUCH AS POWER AND LIFE SUPPORT FOR THE CREW.

FILL IN BLACK LINES USING A BLACK PEN

DRAW NEW RED LINES IN PENCIL

IGNORE THE BLUE LINES FOR NOW.
3. DRAW THE SUPPORT STRUCTURE LINES.

- FILL IN BLACK LINES USING A BLACK PEN
- DRAW NEW RED LINES IN PENCIL

**FUN FACT**
The base of the Mobile Launcher is 20,600 square feet of floor space, equivalent to 10 3-bedroom houses!
4. Add details and the crew access arm.

- Fill in black lines using a black pen.
- Draw new red lines in pencil.
- Erase the pencil lines (shown in blue).

**Fun Fact:** Not only flames, but thousands of gallons of water will flow into the mobile launcher flame hole during launch to suppress sound waves that could damage the rocket.
5. Finish up your Mobile Launcher core structure!

**Fun Fact**

The crew access arm is installed at about the 274-foot level and ends with a white room. This is not only painted white, but it is given the name because it is kept clean of contaminants.

**Fill in black lines using a black pen**
6. **FILL OUT THE MAIN STRUCTURE LINES.**

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**FUN FACT**
There are 662 steps up to the top of the Mobile Launcher (ML) tower at Kennedy Space Center.

**FUN FACT**
When standing at the top of the tower, you are approx. 400 ft. off the ground!
Now get creative! Add the ML’s unique red piping. Draw stars and the moon.

Add NASA’s Space Launch System rocket onto the ML platform. Make it launch!

Don’t forget to share your masterpiece on social media!

#DrawArtemis