HOW TO DRAW



NASA'S LAUNCH PAD 39B





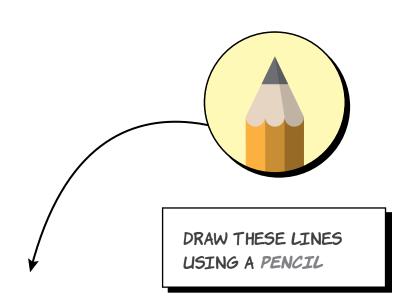
1 GETTING SOME PERSPECTIVE...

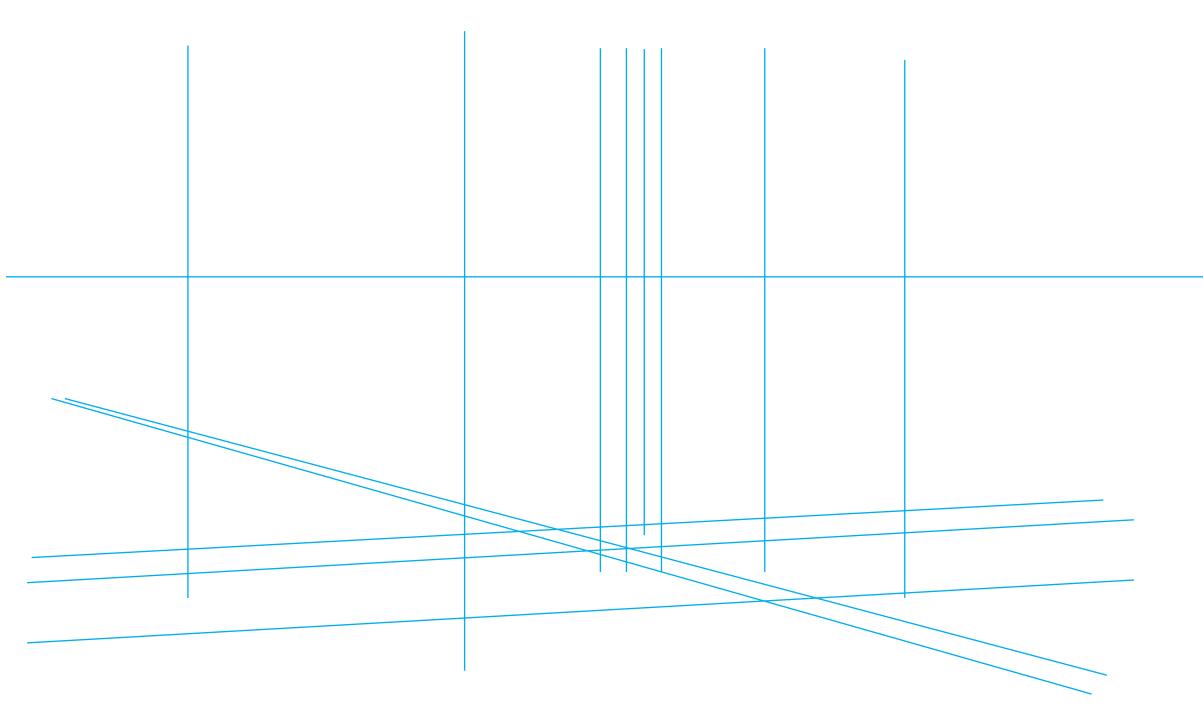
LET'S SET THE SCENE. LIGHTLY DRAW OR TRACE THE BLUE LINES HERE WITH A RULER IN PENCIL. THIS WILL PROVIDE A GOOD PERSPECTIVE FRAME FOR YOUR DRAWING.



SUPPLY LIST

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





FUN FACT

EXPLORATION GROUND SYSTEMS (EGS)
HAS MADE SIGNIFICANT UPGRADES AND
ENHANCEMENTS TO LAUNCH PAD 39B TO
SUPPORT NASA'S ARTEMIS MISSIONS TO
THE MOON AND DEEP SPACE
DESTINATIONS INCLUDING MARS.

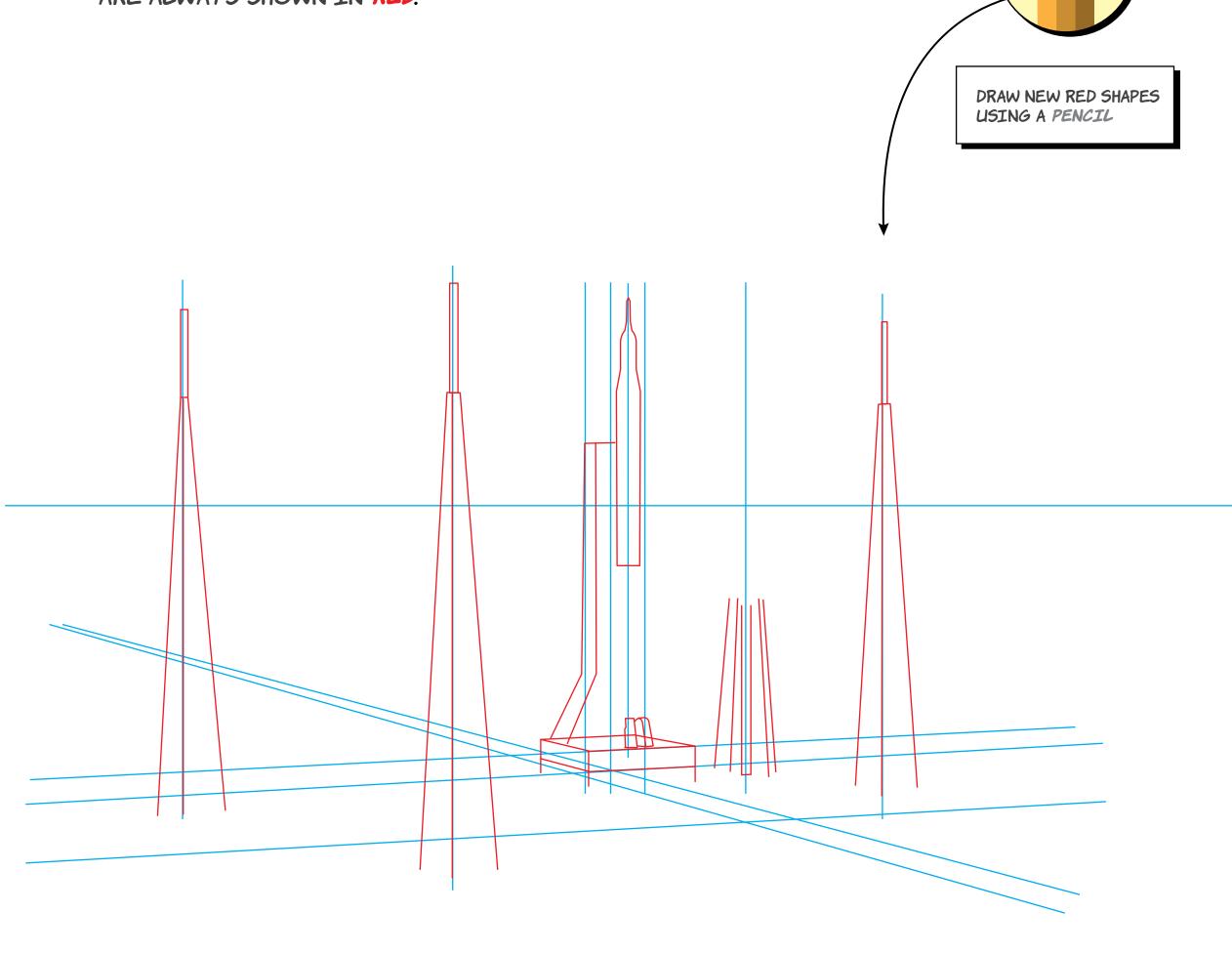
FUN FACT

DURING REFURBISHMENT PROJECTS, 1.3 MILLION FEET OF COPPER CABLES WERE REMOVED AND REPLACED WITH 300,000 FEET OF FIBER CABLE.

2. DRAW YOUR FIRST STRUCTURE LINES

DRAW THE FIRST LINES FOR THE LIGHTNING TOWERS, WATER TOWER, MOBILE LAUNCHER AND SPACE LAUNCH SYSTEM (SLS).

THE CURRENT SHAPES TO BE DRAWN ARE ALWAYS SHOWN IN RED.



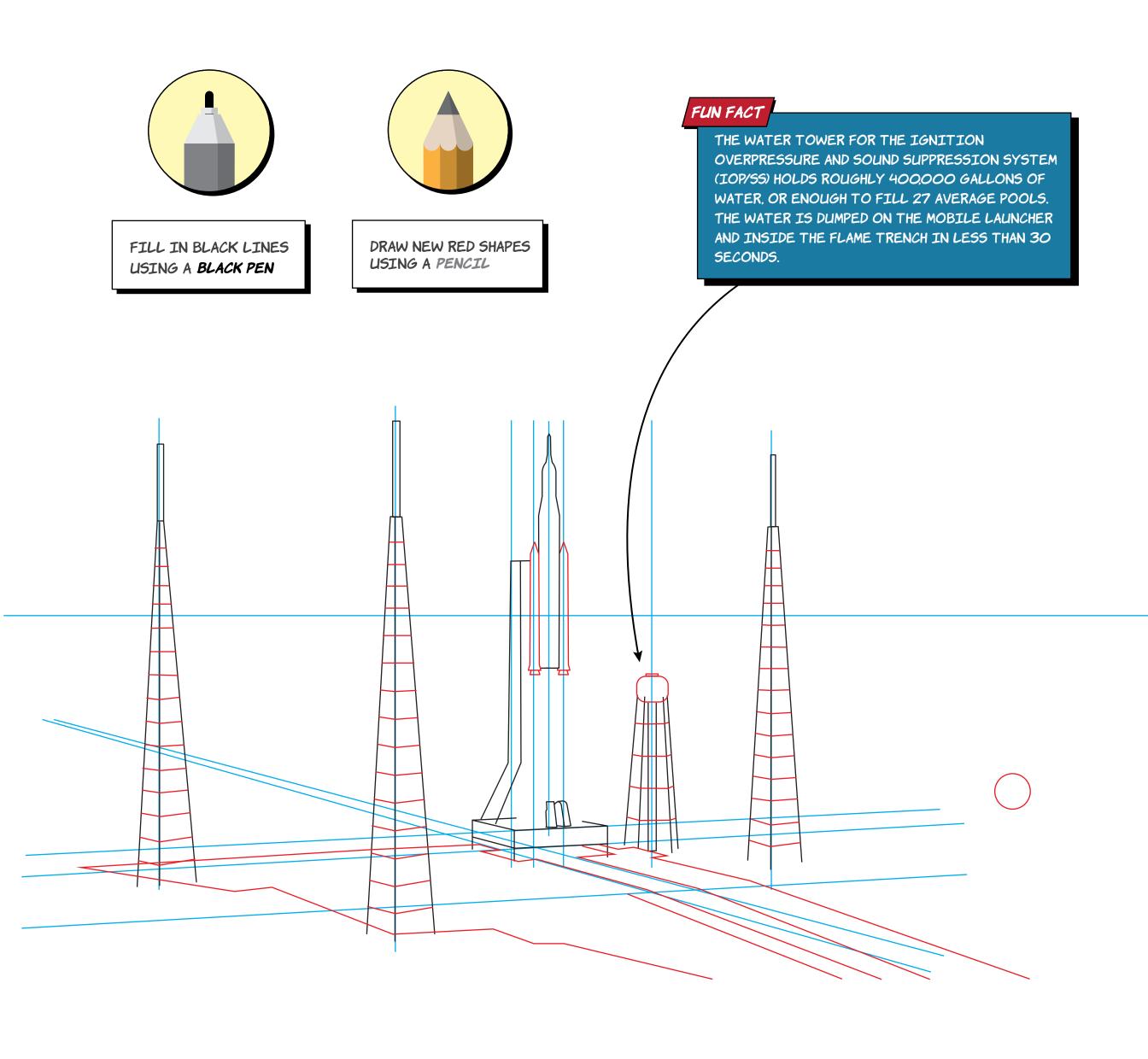
FUN FACT

THE THREE LIGHTNING TOWERS ARE ABOUT 600 FEET TALL - TALLER THAN THE VEHICLE ASSEMBLY BUILDING, WHICH IS 525 FEET TALL.

FUN FACT

APOLLO 10 WAS THE FIRST MISSION TO BEGIN AT LAUNCH PAD 39B WHEN IT LIFTED OFF MAY 18, 1969, TO REHEARSE THE FIRST MOON LANDING.

3. ADD SLS BOOSTERS AND MORE DETAILS TO TOWERS



FUN FACT

THE IOP/SS PEAK FLOW RATE IS 1.1 MILLION GALLONS PER MINUTE, HIGH ENOUGH TO EMPTY ROUGHLY TWO OLYMPIC-SIZE SWIMMING POOLS IN ONE MINUTE!

4. FINISH THE PAD AND LAUNCH YOUR SLS!



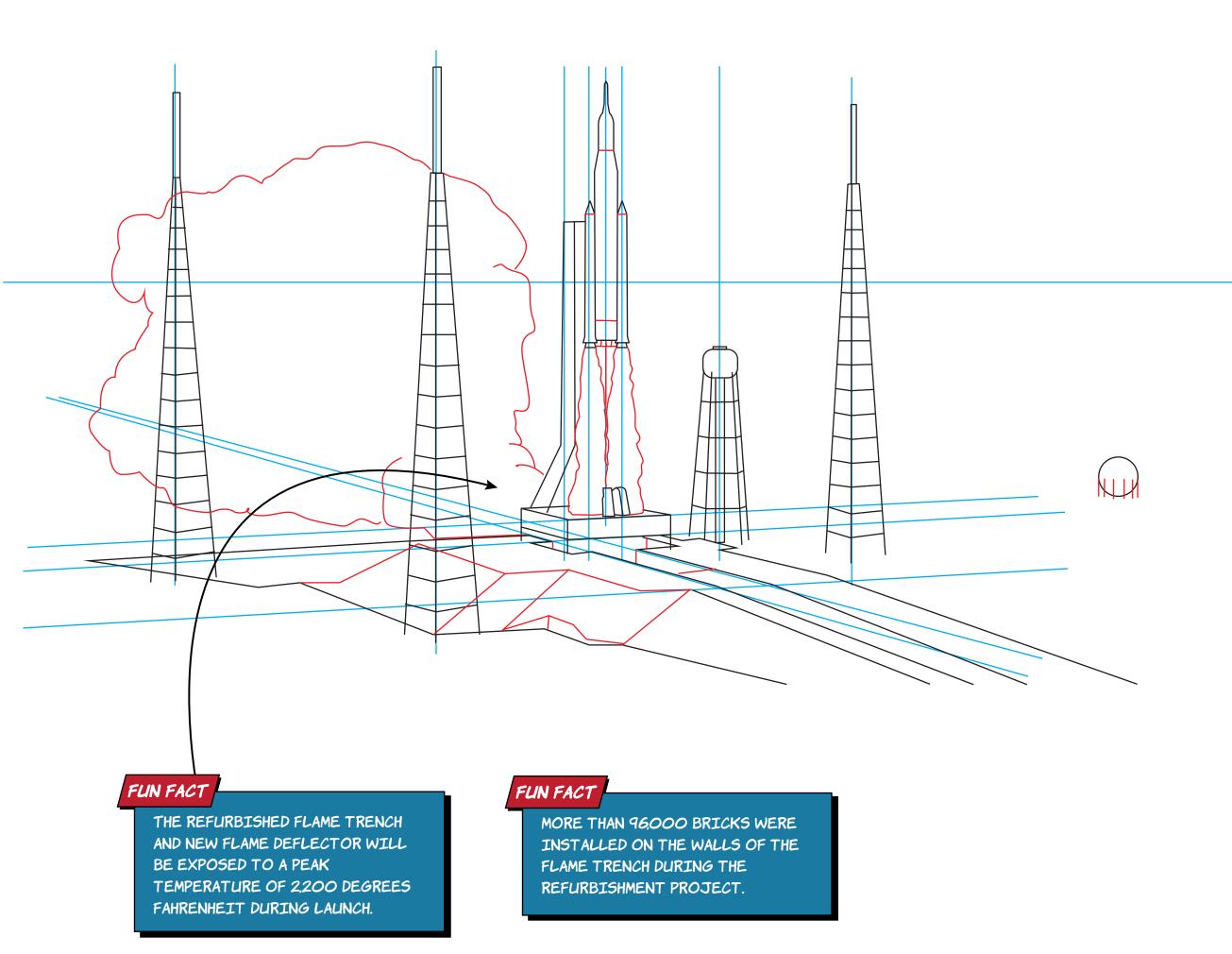
FILL IN BLACK LINES USING A **BLACK PEN**



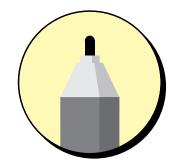
DRAW NEW RED SHAPES USING A PENCIL



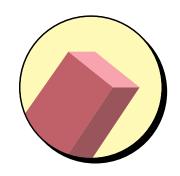
IN THIS PHOTO, SHOWING THE REVERSE ANGLE OF THE DRAWING, THE FLAME TRENCH AND FLAME DEFLECTOR CAN BE SEEN.



5. FINALIZE YOUR BLACK LINES AND ERASE REMAINING BLUE LINES



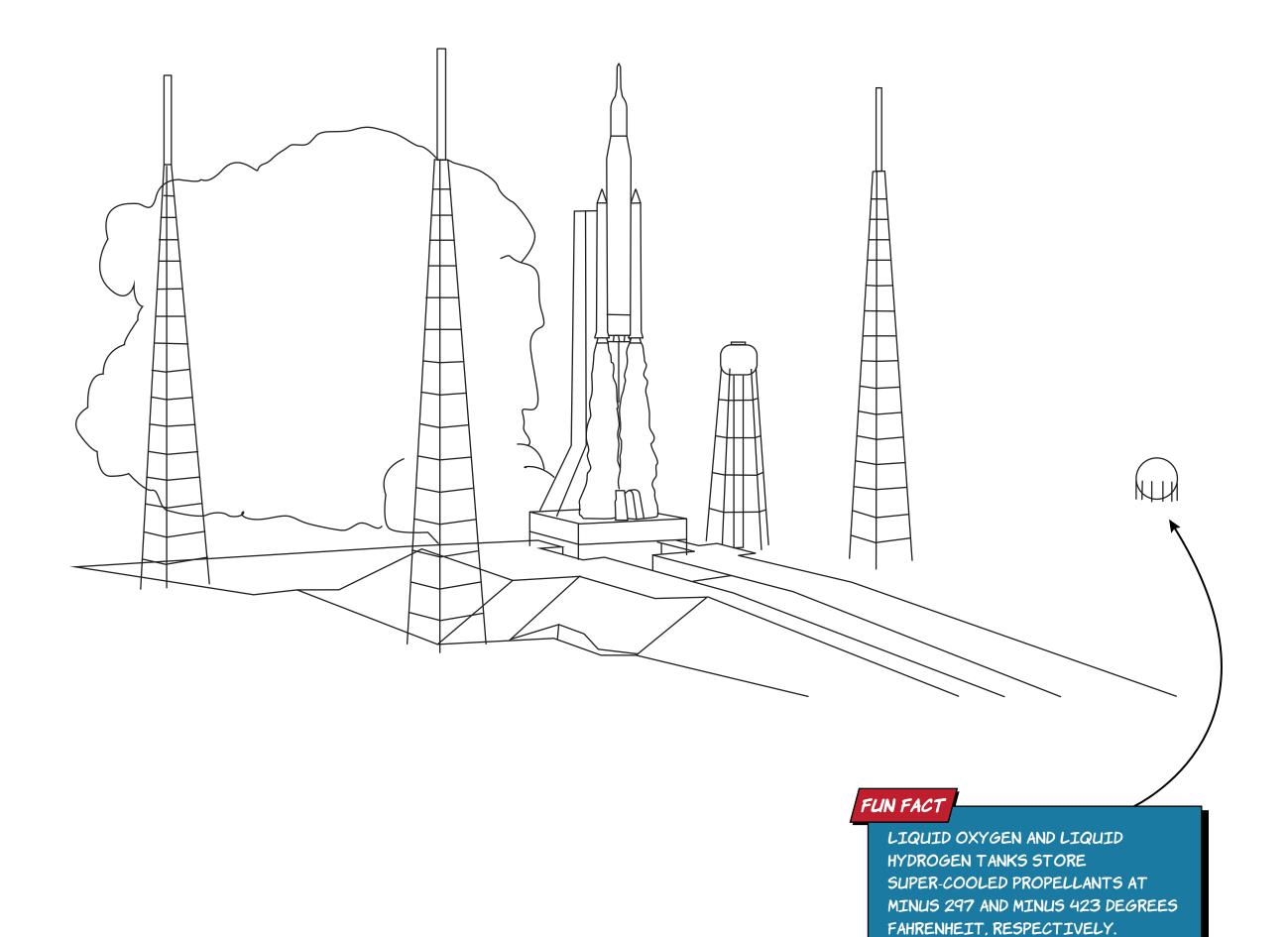
FILL IN BLACK LINES USING A BLACK PEN



ERASE THE
REMAINING PENCIL
LINES (IN BLUE)

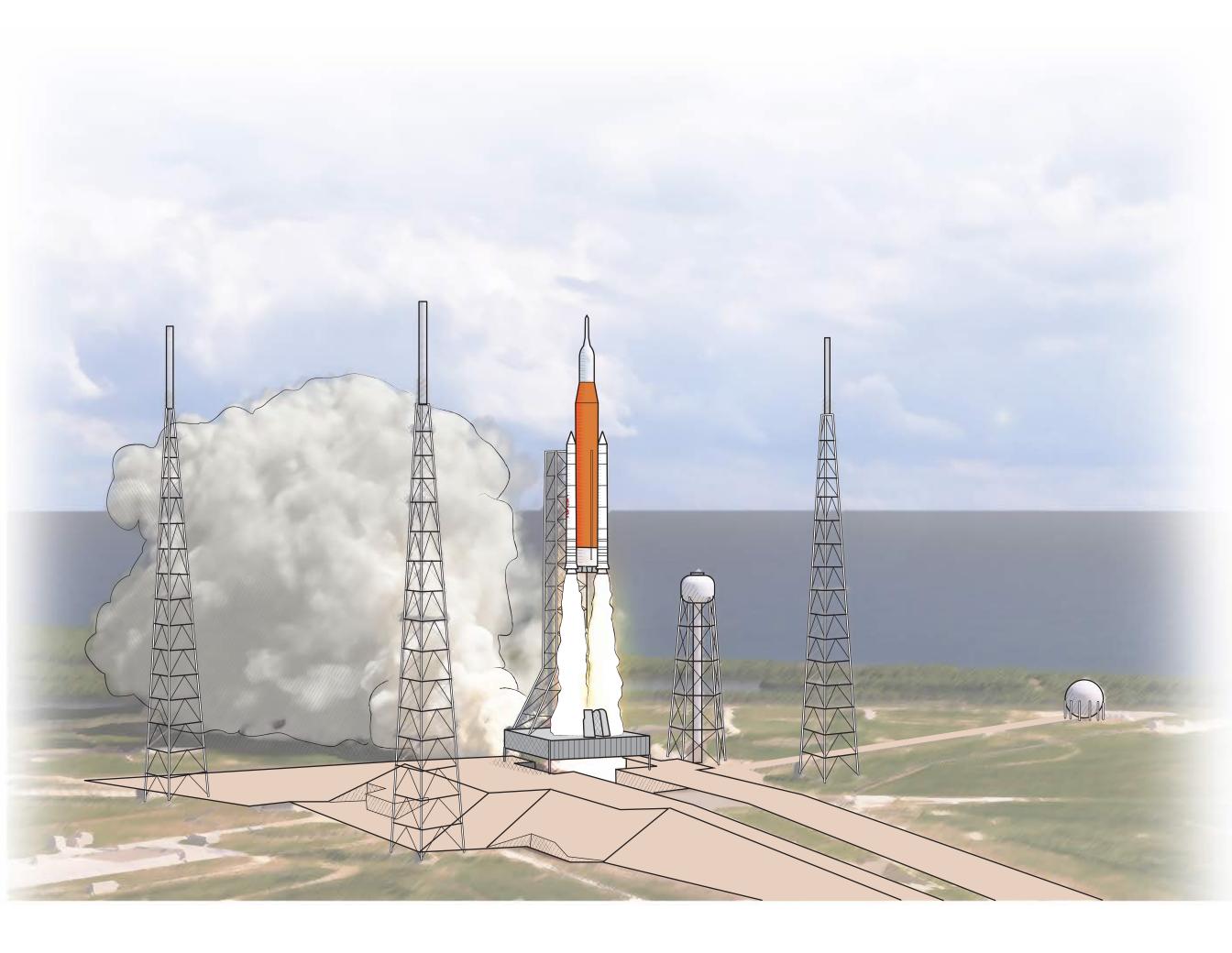
FUN FACT

ENGINEERS AND TECHNICIANS ARE
PLANNING TO DO ALMOST ALL OF THEIR
PREPARATIONS INSIDE THE VEHICLE
ASSEMBLY BUILDING (VAB) BEFORE THE
LAUNCHER GOES TO THE PAD. THIS
MINIMIZES THE AMOUNT OF TIME THE
VEHICLE IS EXPOSED TO THE ELEMENTS
ON THE LAUNCH PAD PRIOR TO LIFTOFF.



6. FINISH AND SHARE!

FILL IN YOUR SLS AND PAD SURFACE COLORS, ADD SOME SHADING AND FINISH WITH THE ATLANTIC OCEAN AND HORIZON IN BACK!



MAKE IT YOUR OWN! TRY A NIGHT LAUNCH WITH THE MOON AND STARS!

DON'T FORGET TO SHARE YOUR MASTERPIECE ON SOCIAL MEDIA!



