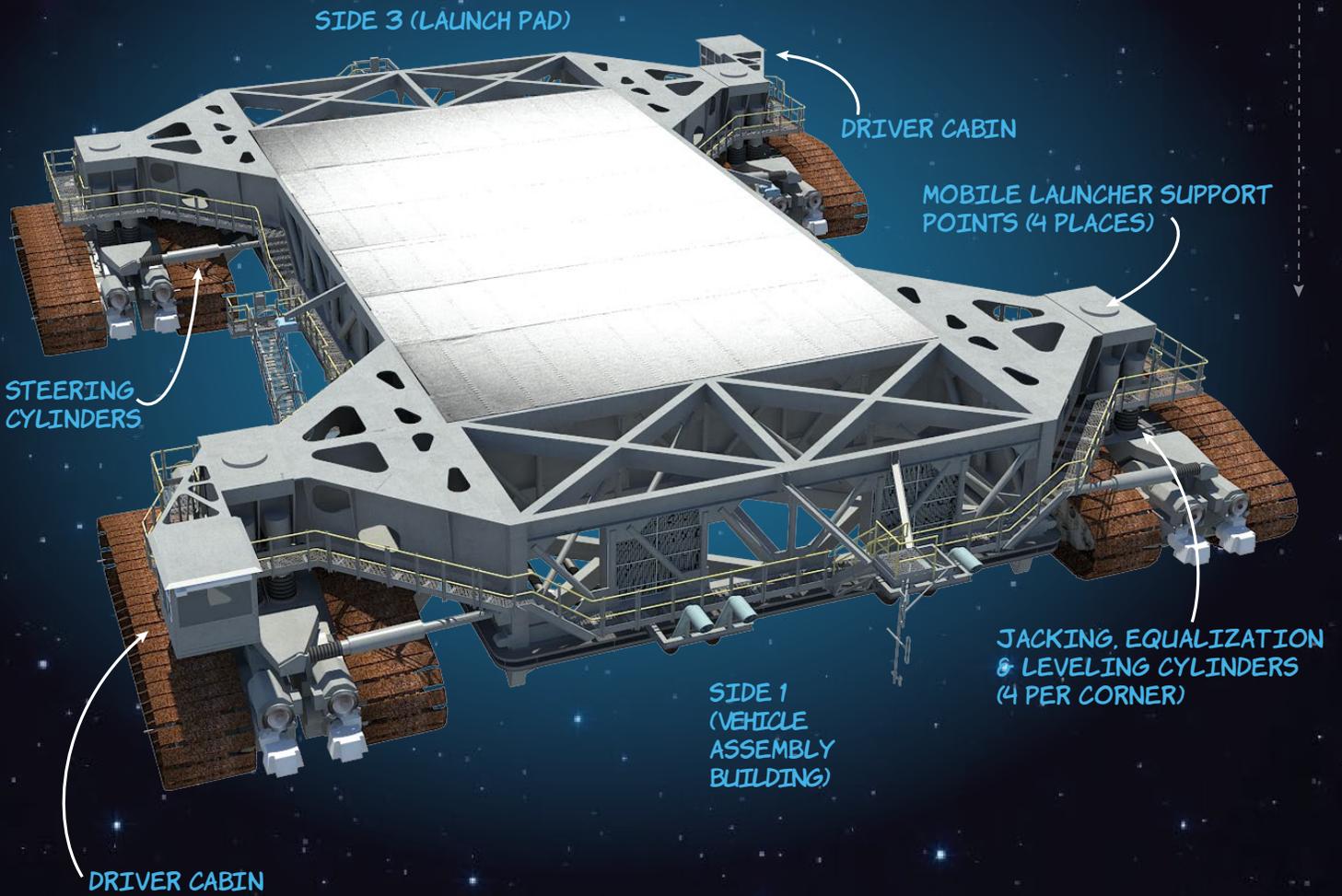


HOW TO DRAW

ARTEMIS

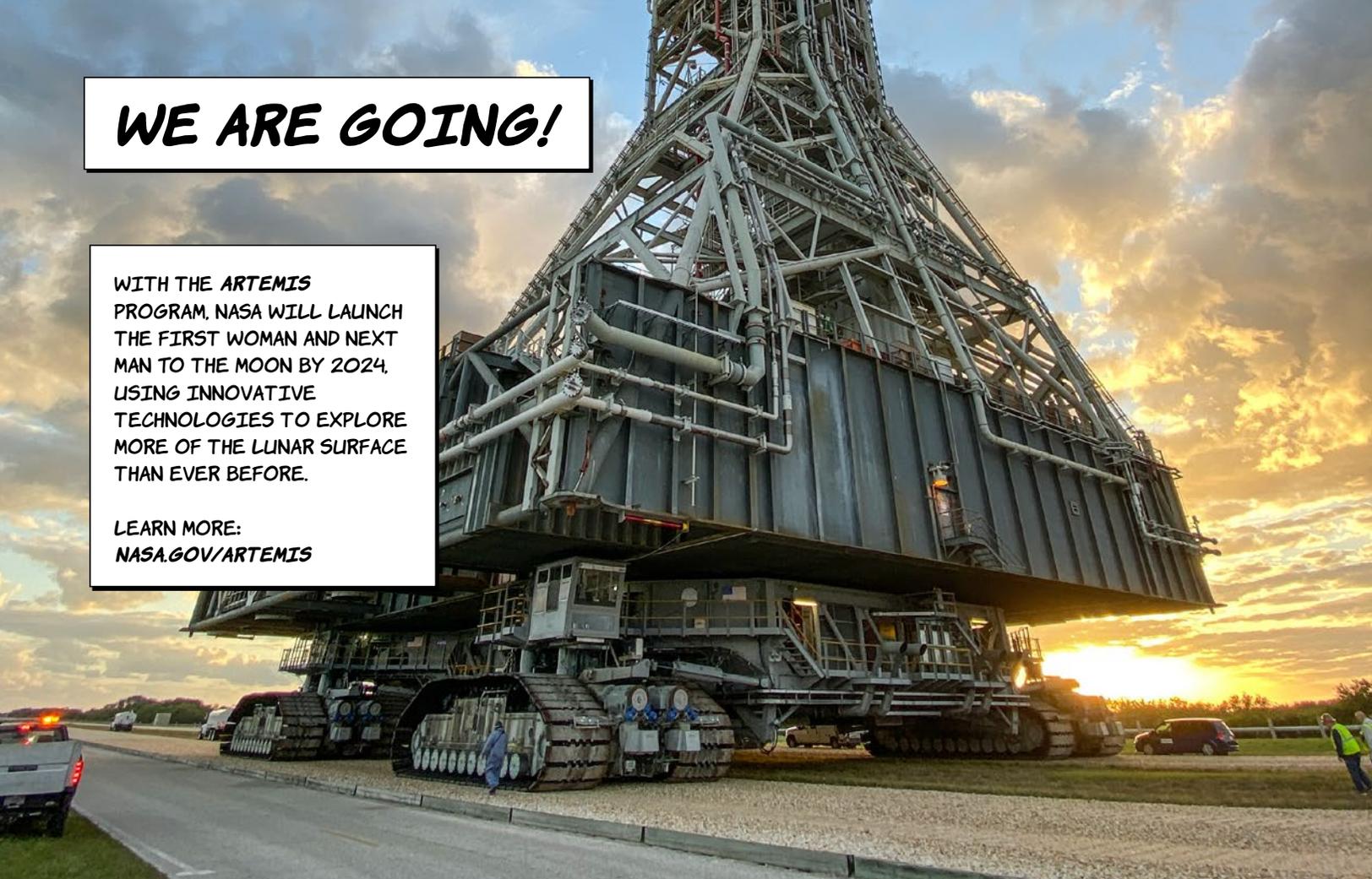
NASA'S CRAWLER-TRANSPORTER



WE ARE GOING!

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.

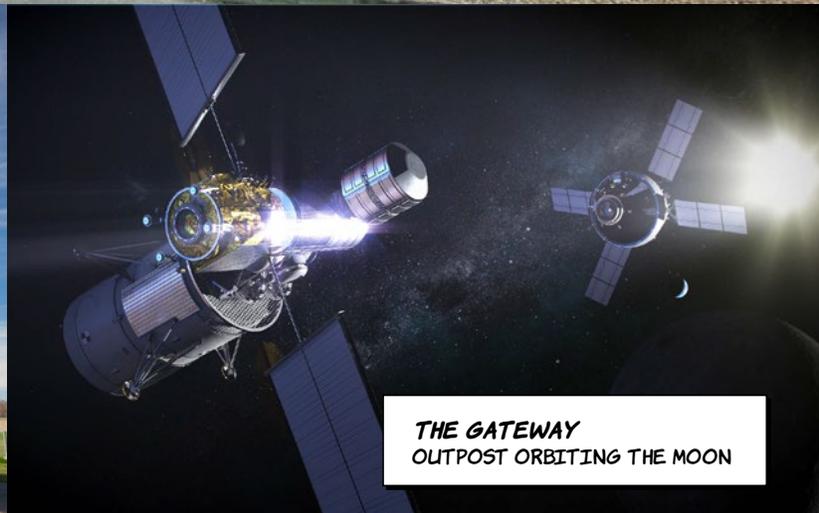
LEARN MORE:
[NASA.GOV/ARTEMIS](https://www.nasa.gov/artemis)



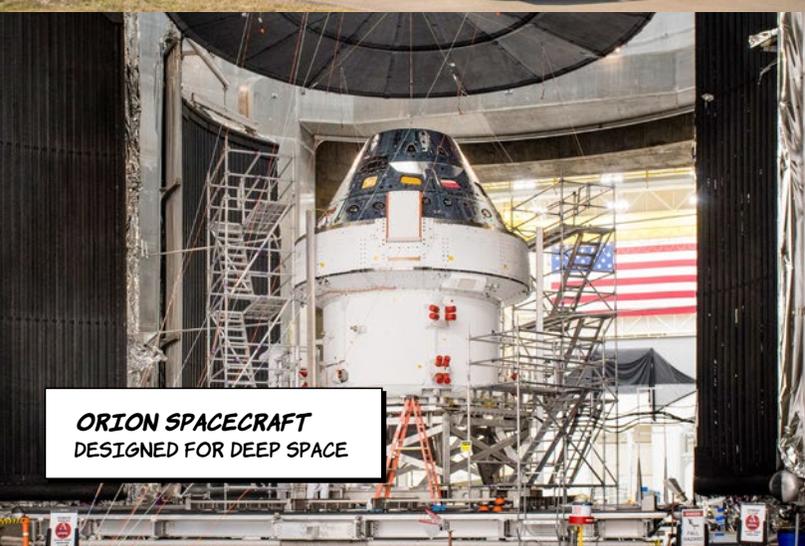
THE SPACE LAUNCH SYSTEM WORLD'S MOST POWERFUL ROCKET



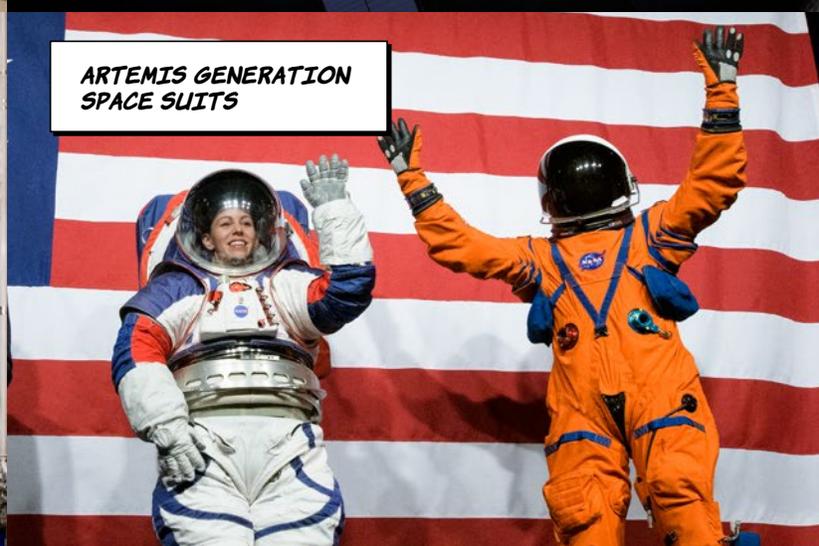
THE GATEWAY OUTPOST ORBITING THE MOON



ORION SPACECRAFT DESIGNED FOR DEEP SPACE

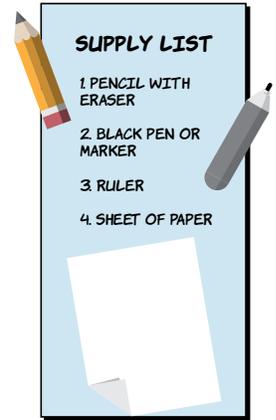


ARTEMIS GENERATION SPACE SUITS

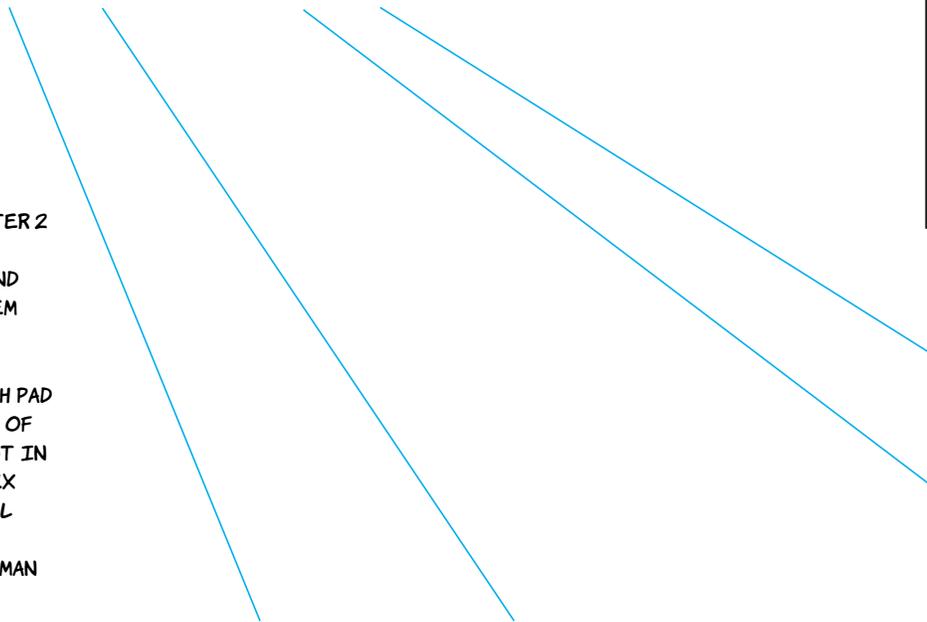


1. GETTING SOME PERSPECTIVE...

BEFORE YOU START THE CRAWLER, LIGHTLY DRAW THE BLUE LINES HERE WITH A RULER IN PENCIL. THIS WILL PROVIDE A GOOD PERSPECTIVE VIEW FOR YOUR CRAWLER.



CRAWLER-TRANSPORTER 2 WILL CARRY NASA'S MOBILE LAUNCHER AND SPACE LAUNCH SYSTEM ROCKET FROM THE VEHICLE ASSEMBLY BUILDING TO LAUNCH PAD 39B FOR THE LAUNCH OF ARTEMIS I. THE FIRST IN A SERIES OF COMPLEX MISSIONS THAT WILL PROVIDE THE FOUNDATION FOR HUMAN DEEP SPACE EXPLORATION.



2. LET'S DRAW THE CRAWLER-TRANSPORTER (CT)!

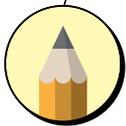
THE CRAWLER CAN BE DRAWN USING SIMPLE SHAPES. USING THE PENCIL, DRAW A RECTANGLE AND A SERIES OF SHAPES THAT YOU WILL USE TO CREATE THE BASIC SHAPE OF THE TRANSPORTER.

FUN FACT

THE CRAWLER TRAVELS AT A SPEED OF 8 MPH WHEN STACKED WITH THE MOBILE LAUNCHER AND SPACE LAUNCH SYSTEM ROCKET.

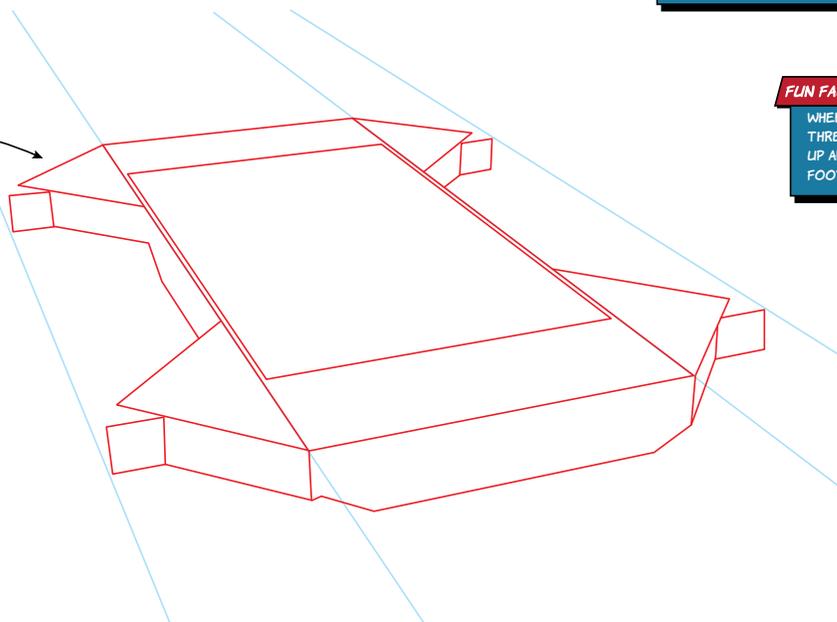
FUN FACT

WHEN PLACED SIDE BY SIDE, THREE CRAWLERS WOULD TAKE UP AN ENTIRE REGULATION SIZE FOOTBALL FIELD.



DRAW THESE SHAPES USING A PENCIL

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



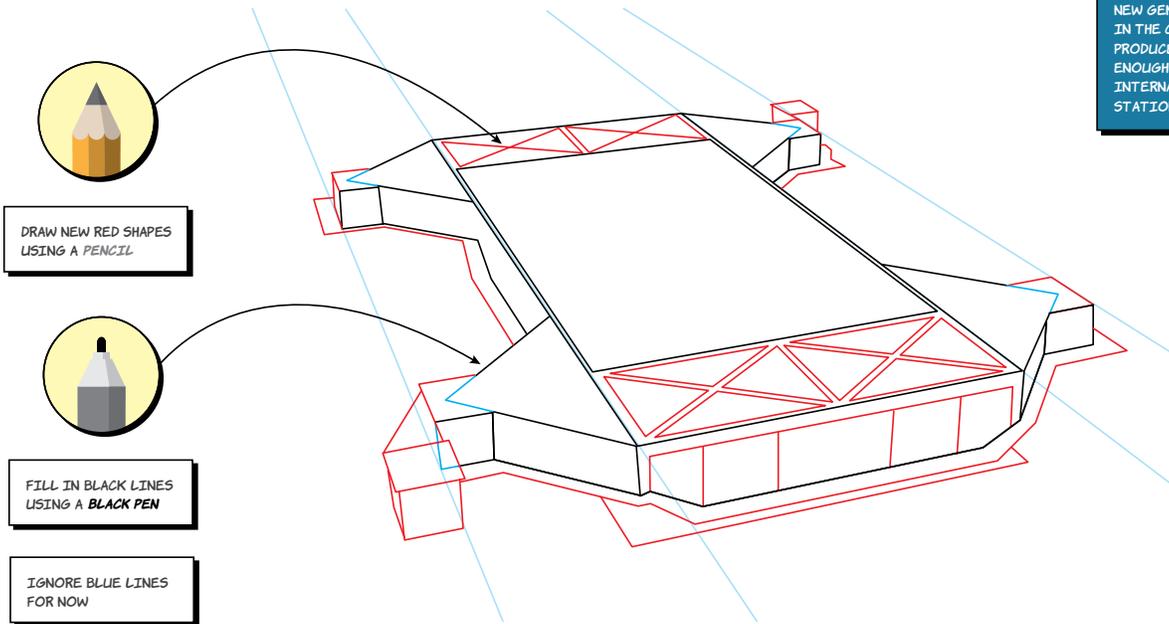
3. DRAW CROSS STRUCTURES AND DRIVER'S CABINS

DRAW THE OUTLINE AROUND THE MAIN STRUCTURE. THIS WILL BE THE START OF A WALKWAY.

NEW BOXES WILL BECOME CABINS WHERE THE DRIVER WILL OPERATE THE CRAWLER.

FUN FACT

NEW GENERATORS INSTALLED IN THE CRAWLERS EACH PRODUCE 1500 KILOWATTS - ENOUGH POWER TO RUN 17 INTERNATIONAL SPACE STATIONS.



4. DRAW TRACKS

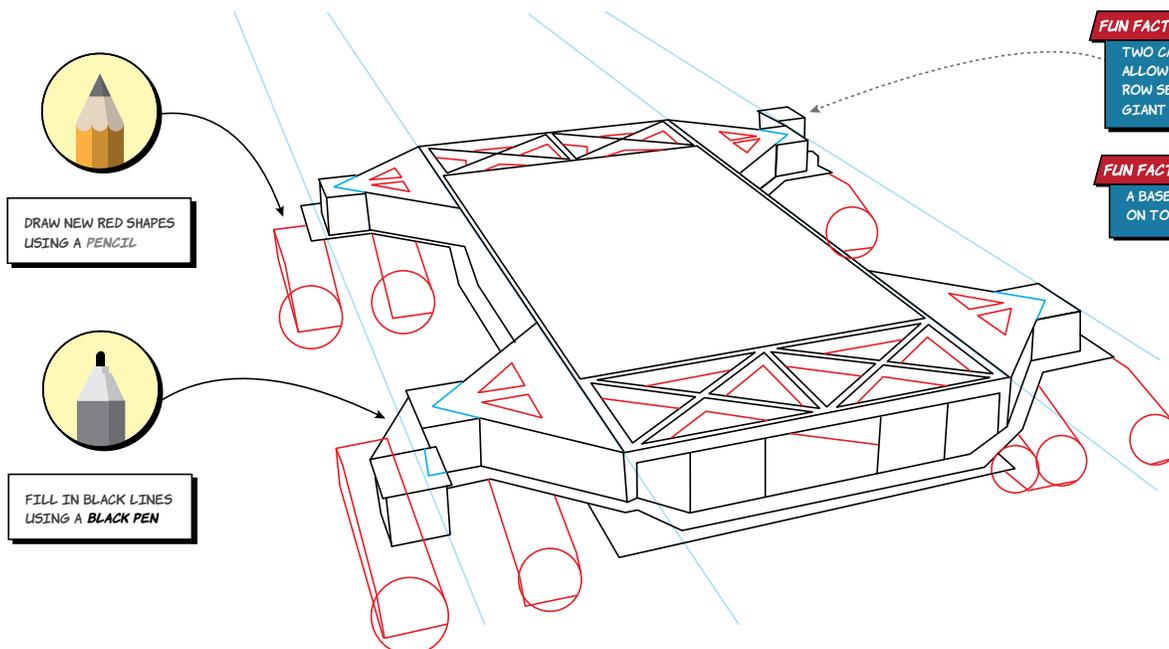
DRAW THE LINES FOR THE TRACKS THAT MAKE THE CRAWLER CRAWL, ALONG WITH 8 CIRCLES. THE CIRCLES WILL GUIDE YOU TO CREATE CERTAIN EDGES THAT ARE ROUNDED.

FUN FACT

TWO CABINS, ONE ON EACH END, ALLOW THE DRIVER A FRONT ROW SEAT TO STEERING THE GIANT CRAWLER.

FUN FACT

A BASEBALL DIAMOND CAN FIT ON TOP OF THE CRAWLER.

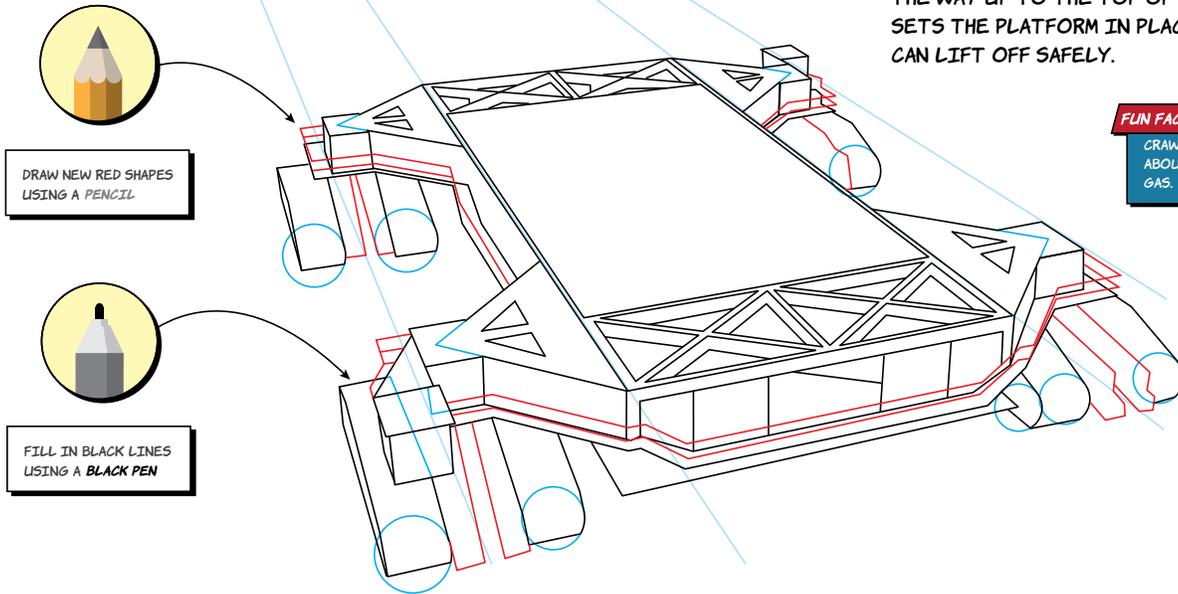


5. FINISH CREW WALKWAY RAILINGS

WALKWAYS ALLOW THE CREW TO MOVE AROUND THE PERIMETER OF THE CRAWLER.

THE CRAWLER IS ABLE TO RAISE AND LOWER ITS SIDES AND CORNERS INDEPENDENTLY. THE CRAWLER ROLLS UNDERNEATH A LAUNCH PLATFORM AND VEHICLE, PICKS IT UP AND STEADILY CARRIES IT SEVERAL MILES TO A LAUNCH PAD.

ONCE THERE, IT CAN USE ITS HYDRAULIC SUSPENSION TO KEEP THE PLATFORM LEVEL ALL THE WAY UP TO THE TOP OF THE PAD WHERE IT SETS THE PLATFORM IN PLACE SO THE VEHICLE CAN LIFT OFF SAFELY.



DRAW NEW RED SHAPES USING A PENCIL

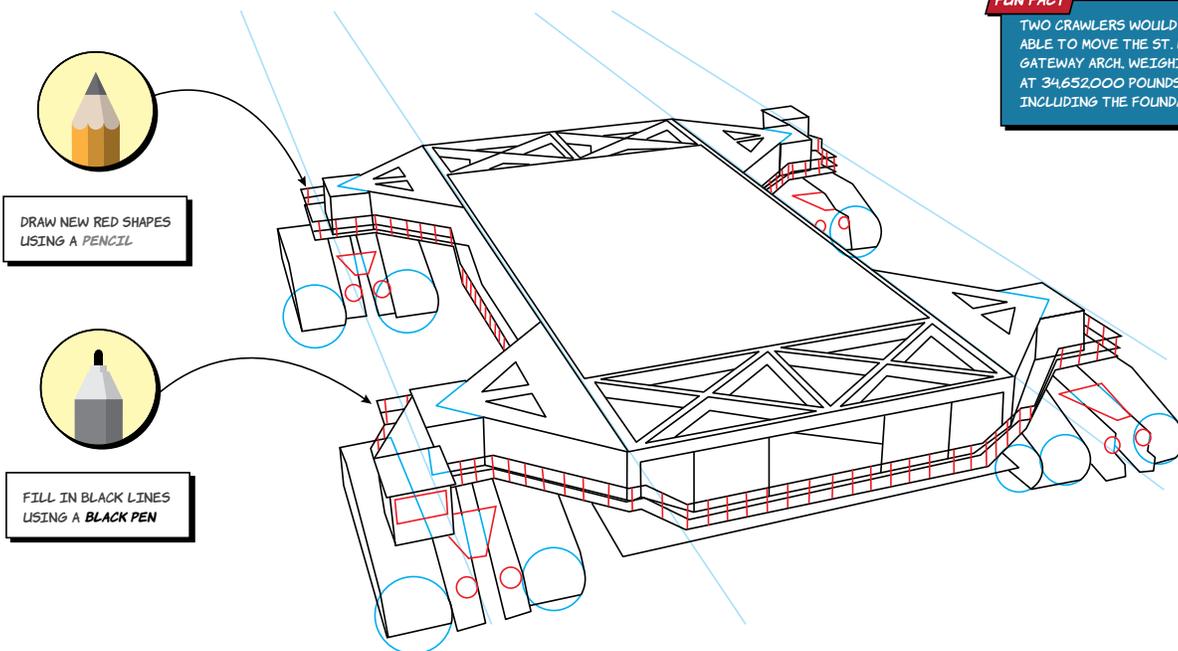
FILL IN BLACK LINES USING A BLACK PEN

FUN FACT
CRAWLER-TRANSPORTER 2 GETS ABOUT 32 FEET PER GALLON OF GAS.

6. DRAW FINAL DETAILS

DRAW THE WINDOW FOR YOUR CRAWLER DRIVER TO SEE OUT OF, AS WELL AS THE FINAL DETAILS ON EACH "TRUCK": THE FOUR TRUCKS MOVE THE TRACKS ON THE CRAWLER.

FUN FACT
TWO CRAWLERS WOULD BE ABLE TO MOVE THE ST. LOUIS GATEWAY ARCH, WEIGHING IN AT 34,652,000 POUNDS (NOT INCLUDING THE FOUNDATION).



DRAW NEW RED SHAPES USING A PENCIL

FILL IN BLACK LINES USING A BLACK PEN

7. FINALIZE YOUR BLACK LINES AND ERASE REMAINING BLUE LINES

FUN FACT

THE CRAWLER WEIGHS APPROXIMATELY 66 MILLION POUNDS (OR THE WEIGHT OF ABOUT 15 STATUES OF LIBERTY OR 1000 PICKUP TRUCKS).

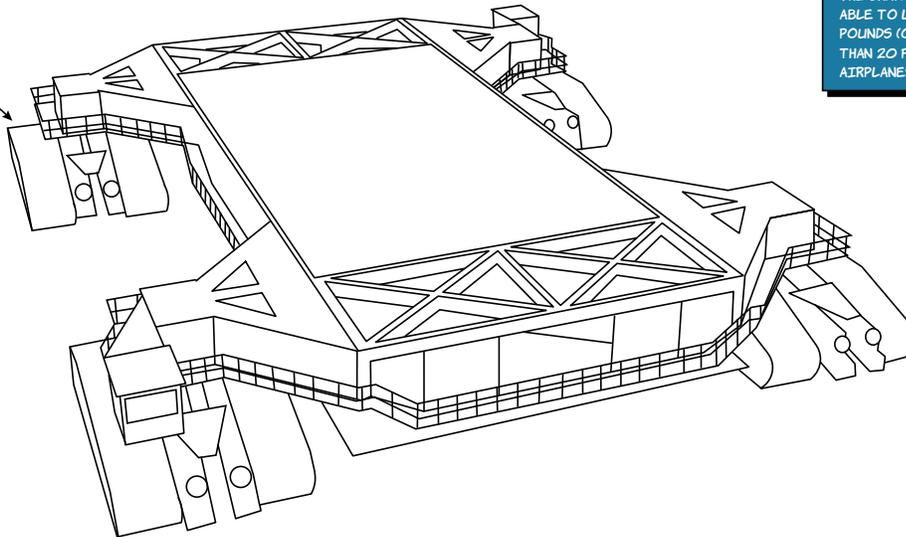
FUN FACT

THE CRAWLER-TRANSPORTER IS ABLE TO LIFT UP TO 18 MILLION POUNDS (OR THE WEIGHT OF MORE THAN 20 FULLY LOADED 777 AIRPLANES).



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

ERASE ALL REMAINING BLUE LINES



8. FINISH AND SHARE YOUR MASTERPIECE!

MAKE IT YOUR OWN! COMBINE WITH MOBILE LAUNCHER AND SPACE LAUNCH SYSTEM FROM PERVIOUS BOOKS. DRAW THE CRAWLERWAY PATH AND HORIZON.

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

#DRAWARTEMIS

