

JR ENGINEERS

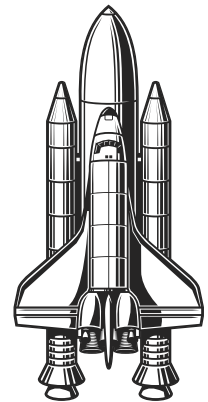
BUILD A SPACE SHUTTLE

ENGINEERING CHALLENGE

Mae Jemison is an American engineer, physician, and former NASA astronaut. She became the first black woman to travel into space aboard the Space Shuttle Endeavour. Try this fun engineering challenge to make your own space shuttle!

CHALLENGE: Build a space shuttle out of a water bottle and random supplies you have around.

TIME CONSTRAINT: 30 minutes or as time allows.



Encourage the kids to spend up to 5 minutes talking about design ideas and making rough sketches! Allow time if possible to share their shuttle design and discuss challenges and what worked well.

EXTEND THE CHALLENGE: In addition to making the space shuttle, if time allows, see if you can make the rocket and boosters too!

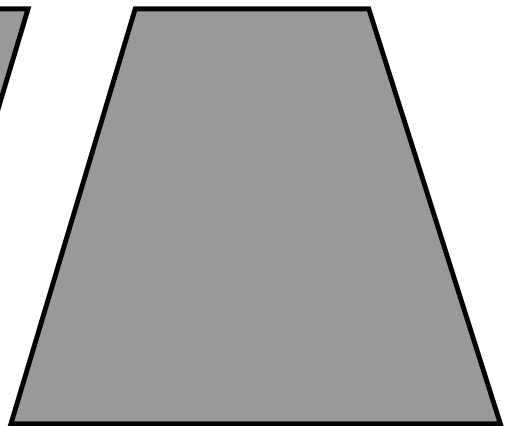
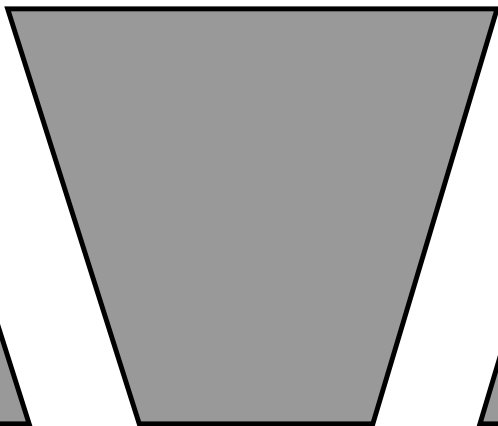
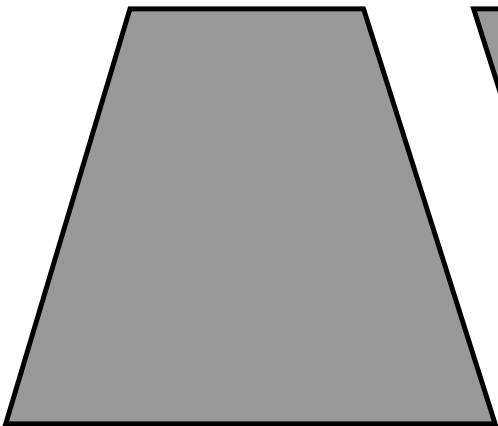
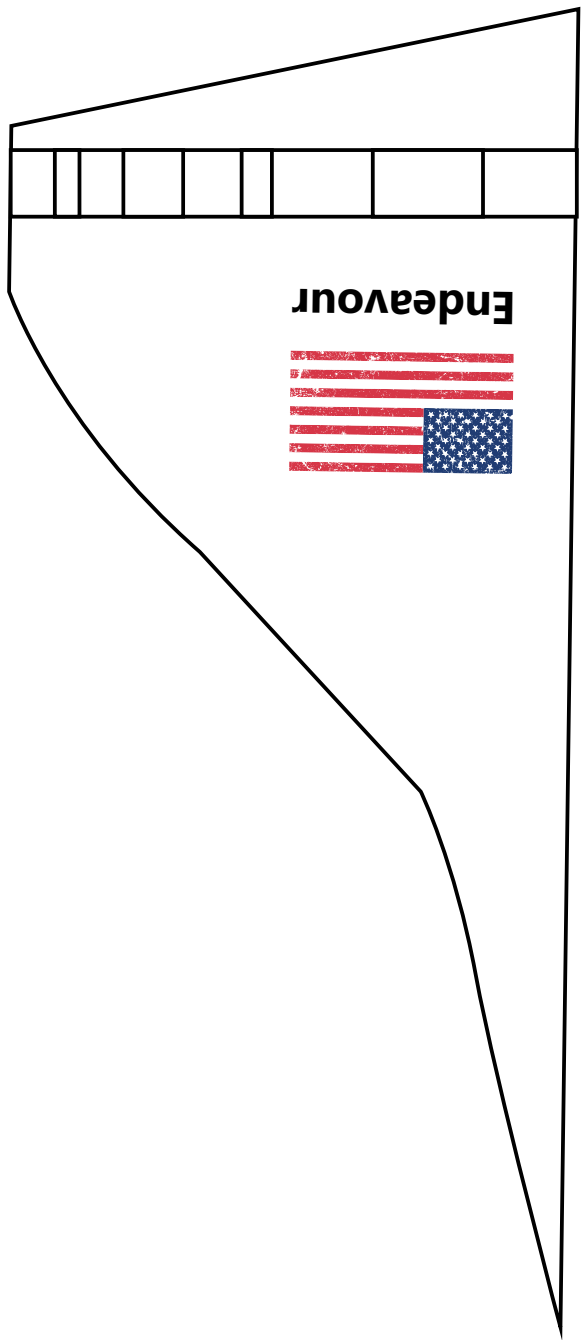
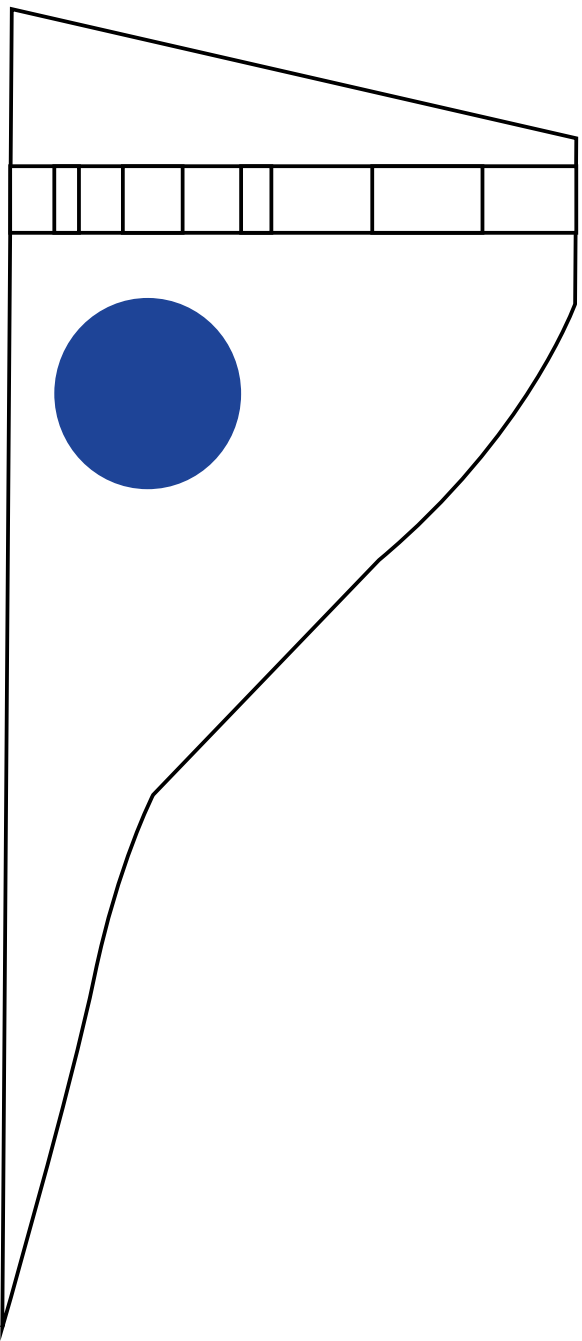
SUPPLIES: Water bottle, Tape, Glue, Scissors, Markers, Other random supplies: (paper, cardboard, paint, plastic lids)

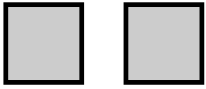
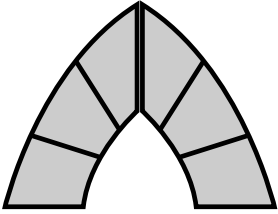
QUESTIONS FOR REFLECTION:

What worked well and what did not work well?

If you could do this challenge again, what would you do differently?

If you could use or add a different material what would you choose?





UNITED STATES