



EVELYN BOYD GRANVILLE

Evelyn Boyd Granville was the second African-American woman to receive a Ph.D. in mathematics from an American University.

In 1956, she worked for IBM as a computer programmer. When IBM was granted a NASA contract, she moved to Vanguard Computing Center in Washington, D.C.

She worked on the Project Mercury and Project Vanguard space programs, which included analyzing orbits and creating computer procedures. Her job included making "real-time" calculations during satellite launchings. "That was exciting, as I look back, to be a part of the space programs--a very small part--at the very beginning of U.S. involvement."

Granville also worked on projects for the Apollo program, which included celestial mechanics, trajectory computation, and "digital computer techniques".

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Build a Satellite

INSTRUCTIONS

STEP 1: Print the satellite template.

STEP 2: Cut out the shapes from the template.

STEP 3: Cut your water bottle in half and then cut out a section of the bottom half.

STEP 4: Put your water bottle back together, so that it is now a smaller bottle. Tape the middle.

STEP 5: Wrap your bottle with aluminum foil and tape.

STEP 6: Use the templates to cut out the rectangles and the circle out of cardboard.

STEP 7: Glue your cardboard circle to the top of your water bottle.

STEP 8: Wrap the half circle around and tape, to make a satellite dish. Glue to the top of the cardboard circle.

STEP 9: Wrap the cardboard rectangles with aluminum foil and glue the printed satellite panels on top of the foil.

STEP 10: Glue a craft stick to each satellite panel.

STEP 11: Poke holes in your water bottles and insert the craft sticks/panels.

You have made a satellite!

SUPPLIES

Satellite printable

Scissors

Aluminum Foil

Glue

Craft Sticks

Water Bottle

Cereal box cardboard



