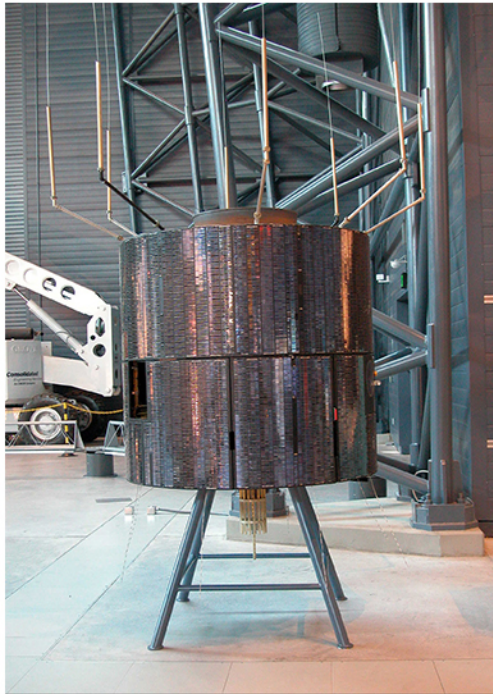


ATS-1 (Applications Technology Satellite)



first full disk image of Earth ever taken from geostationary orbit-Dec 11, 1966.

On December 6, 1966, a NASA Atlas rocket carried the Applications Technology Satellite (ATS-1) to space, becoming the first Earth-observing satellite ever placed in geostationary orbit.

The satellite was able to precisely match the spin of our planet on its axis and remain over a fixed point on the surface.

ATS-1, and the six models that followed, served as a platform for evaluating different kinds of spacecraft stabilization and communications techniques, while also carrying several scientific and meteorological experiments.

During its 18-year life, ATS-1 tested spin-stabilization and 3-axis stabilization systems, investigated the geostationary environment, tested the ability to act as a link between ground stations and aircraft, demonstrated collection of meteorological data from remote terminals, and evaluated the feasibility of using VHF signals for navigation.

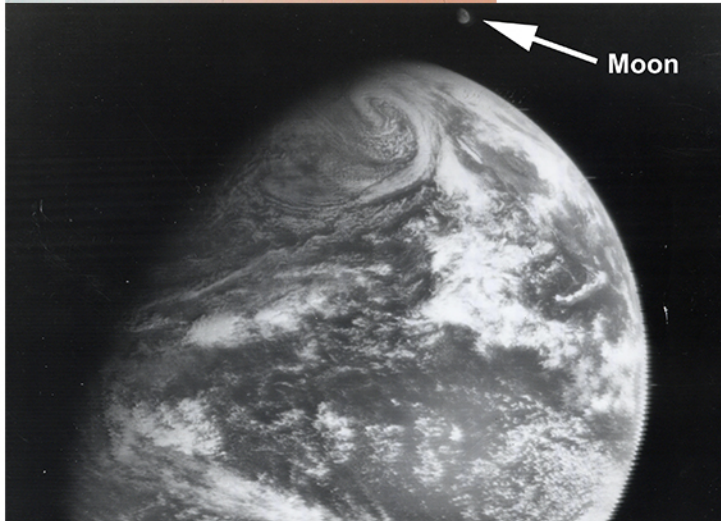
It also transmitted educational programs and provided health, research, and community services to the United States and several Pacific locations, including the Cook, Mariana, Marshall and Caroline Islands, as well as West and American Samoa, Melanesia, New Zealand and Australia.

The satellite was also responsible for providing the first full-disk image of Earth ever taken from geostationary orbit and the first image of Earth and its moon together.

Because ATS-1 spun to stay stabilized in space, taking an image of Earth became rather tricky. To overcome this, the camera scanned a small strip of the Earth with each rotation of the satellite. By tilting the mirror slightly for the next rotation, an image of Earth could be pieced together line by line in less than 30 minutes.

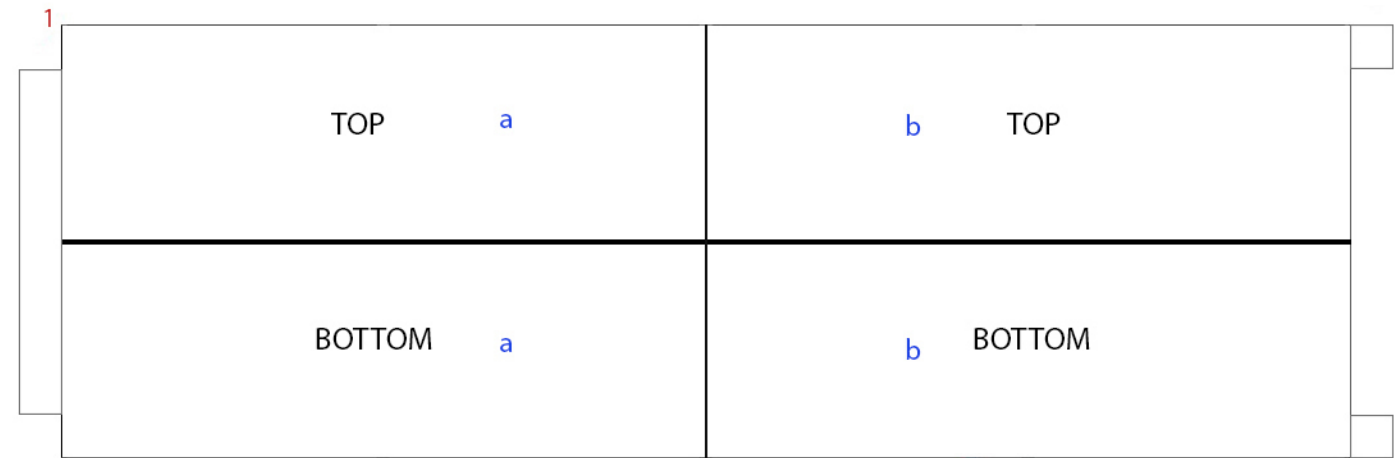
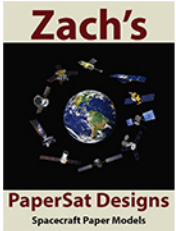
Suddenly, scientists for the first time could see weather moving around an entire hemisphere while the satellite seemed to remain still, revolutionizing weather forecasting forever.

The ATS-1 remained operational for more than 18 years, until April, 1985.

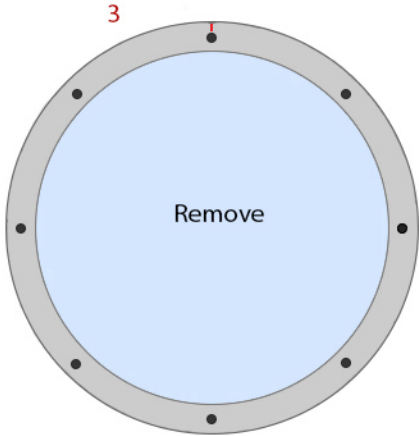
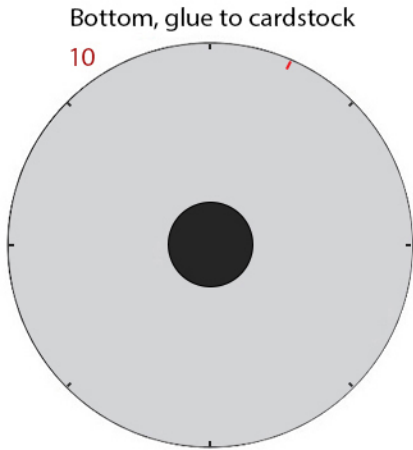


ATS-1's image of Earth and moon together, taken Dec. 22, 1966, first of its kind

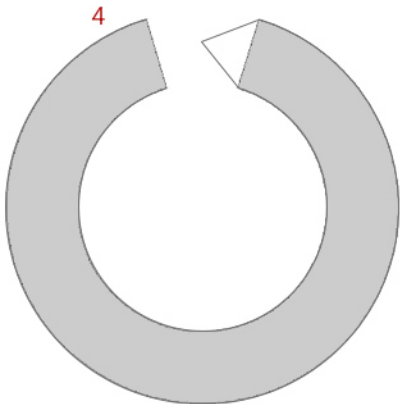
ATS-1 (Applications Technology Satellite)



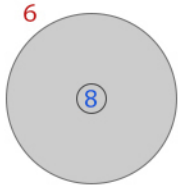
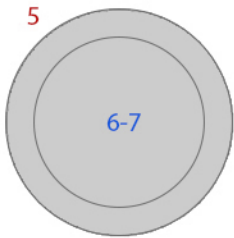
Glue inside bottom edge of the body



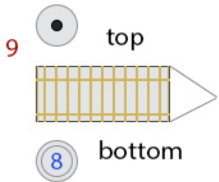
Poke small holes on the black dots.



Roll-glue to a shallow cone with color inside.

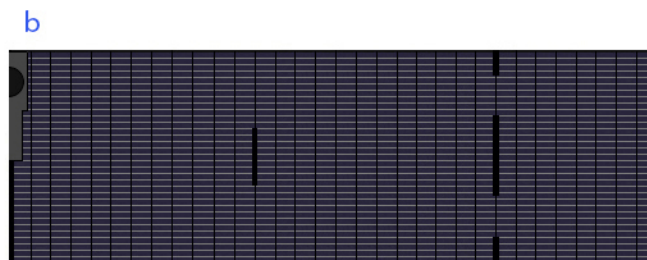
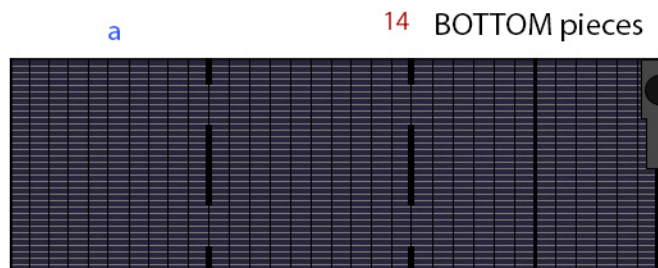
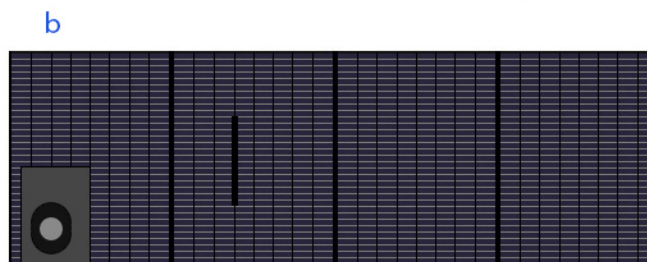
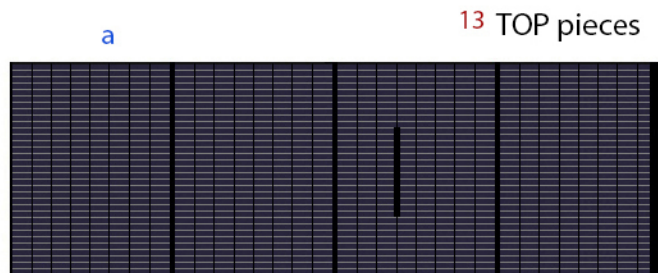


Color back light grey



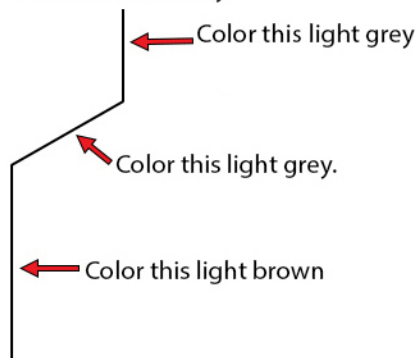
ATS-1 (Applications Technology Satellite)

Center line on the satellite's body.



Glue parts 13 on the TOP half of the body on the labeled areas (a, b) starting with the center line printed on the body.
Glue parts 14 on the BOTTOM half the same way.

Glue this end to inside
bottom of the body.



Need 8 plastic broom straws or similar material
cut and bend to match the size of the graphic
on the left.

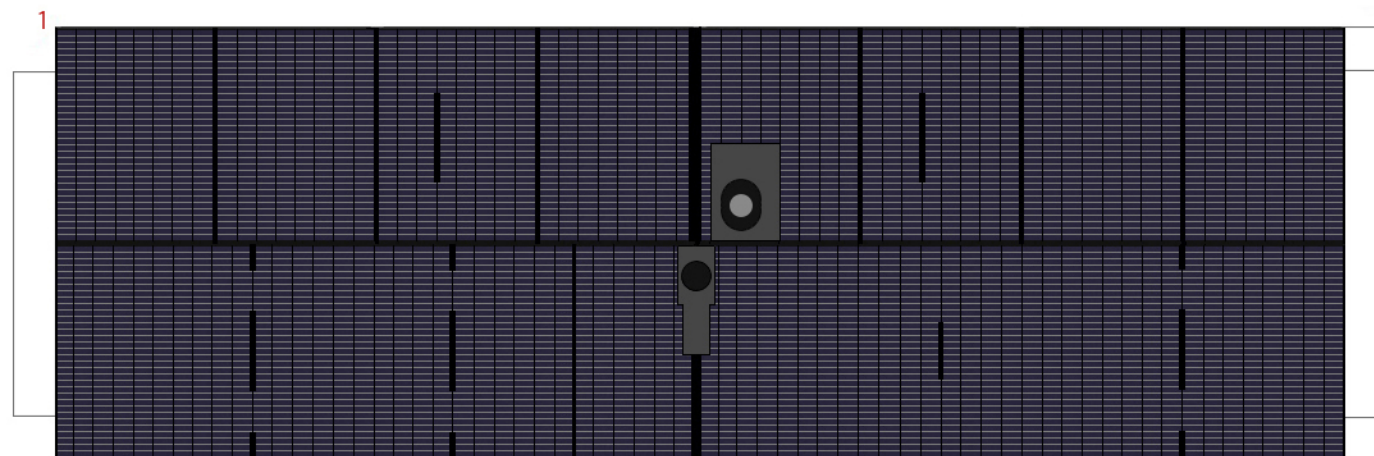
Color them as labeled.

need 8 plastic broom straws or similar material cut
at the same length as this line, colored light grey.

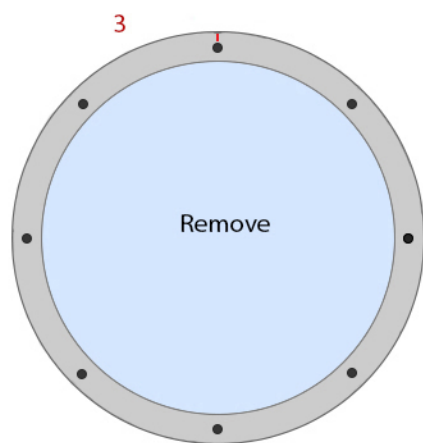
These are glued to the holes on part3.

Need plastic broom straw or similar material cut
at the same length as this line, colored light grey.

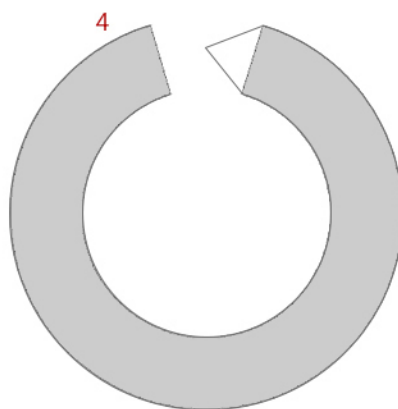
The following is the ATS-1 model “easier version”,
the solar panels are already printed on the body.



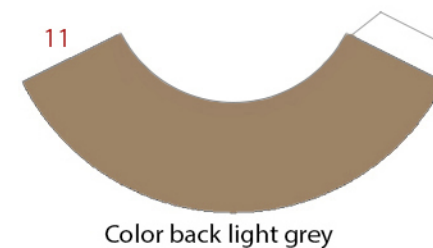
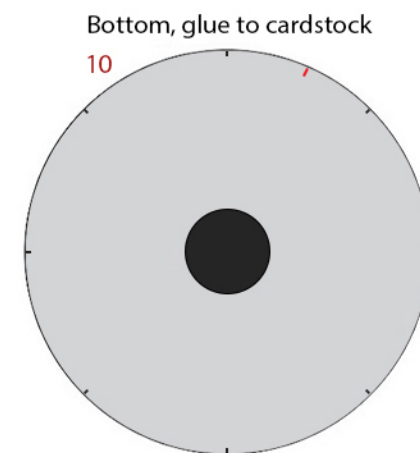
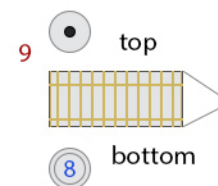
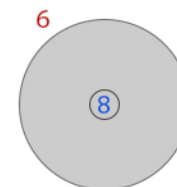
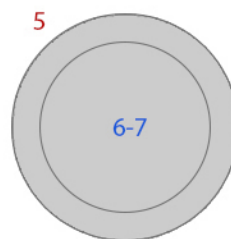
Glue inside bottom edge of the body



Poke small holes on the black dots.



Roll-glue to a shallow cone with color inside.



Color back light grey

ATS-1 (Applications Technology Satellite)



Glue this end to inside
bottom of the body.

← Color this light grey

Need 8 plastic broom straws or similar material
cut and bend to match the size of the graphic
on the left.

Color them as labeled.

← Color this light grey.

← Color this light brown

need 8 plastic broom straws or similar material cut
at the same length as this line, colored light grey.

These are glued to the holes on part3.

Need plastic broom straw or similar material cut at
the same length as this line, colored light grey.