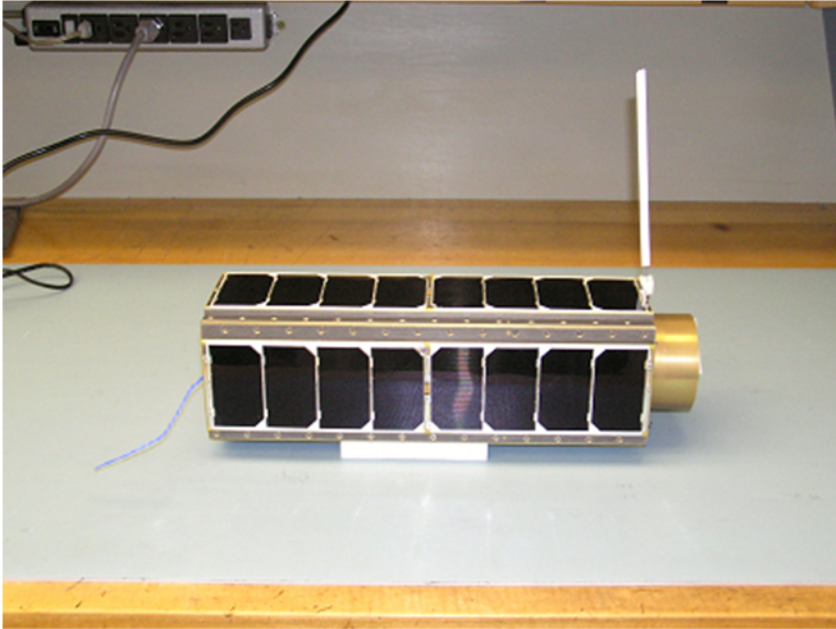


GeneSat-1



The 11-pound (5-kilogram) GeneSat-1, carrying bacteria inside a miniature laboratory, was launched on Dec. 16, 2006, from NASA's Wallops Flight Facility, Wallops Island, Va. It was a secondary payload on an Air Force four-stage Minotaur 1 rocket that delivered the Air Force TacSat 2 satellite to orbit. GeneSat-1 began to transmit data on its first pass over the mission's California ground station. The very small NASA satellite has proven that scientists can quickly design and launch a new class of inexpensive spacecraft -- and conduct significant science.

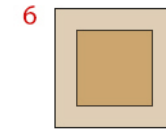
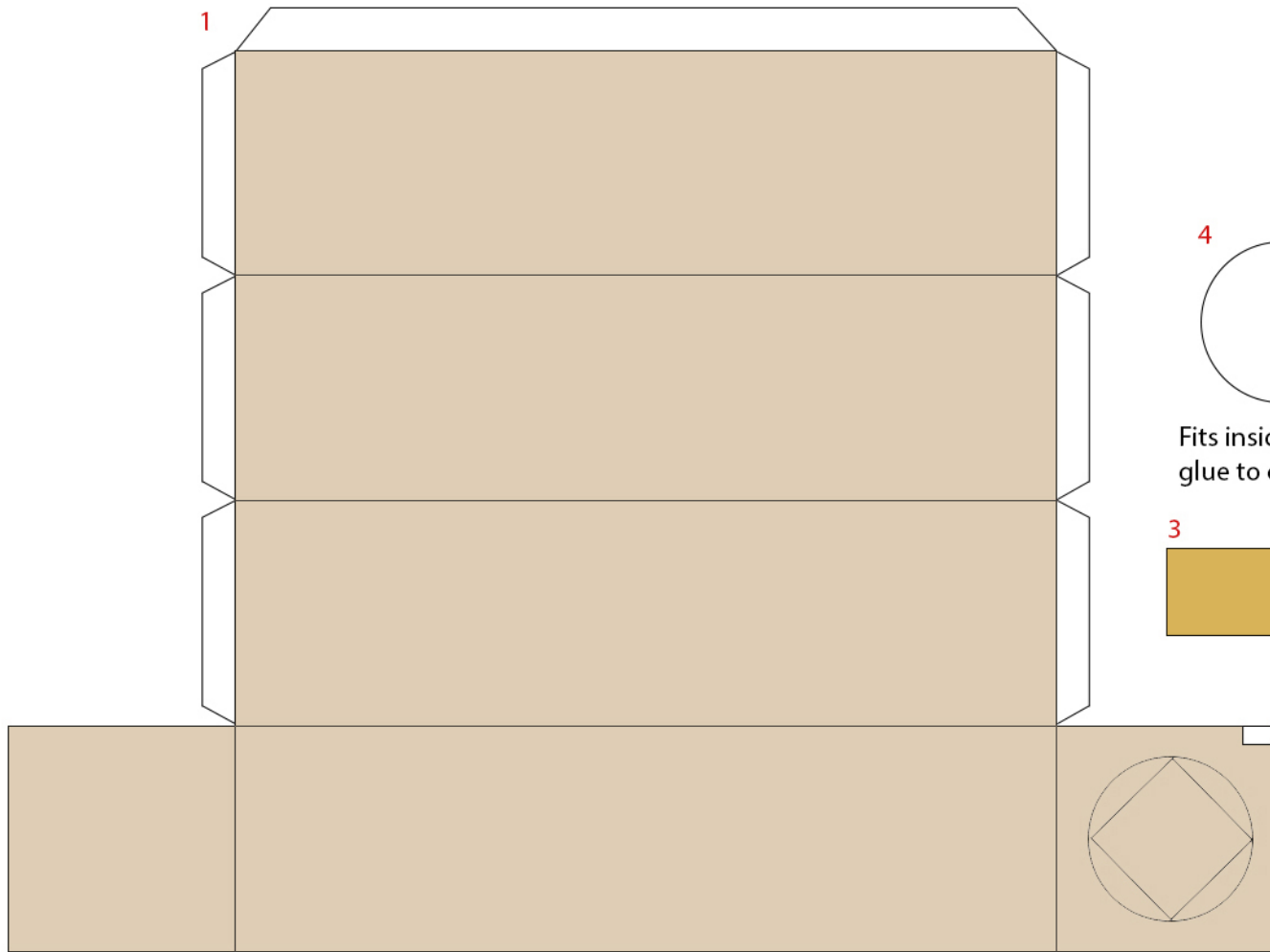
The Small Spacecraft Office at NASA Ames Research Center, Moffett Field, Calif., teamed up with industry and local universities to develop the fully automated, miniature GeneSat spacecraft system that provides life support for small living things.

Researchers noted that knowledge gained from GeneSat-1 would help scientists understand how spaceflight affects the human body. GeneSat-1's onboard micro-laboratory includes sensors and optical systems that can detect proteins that are the products of specific genetic activity.

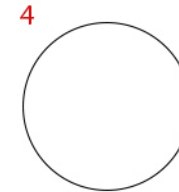
It is NASA's first fully automated, self-contained biological spaceflight experiment on a satellite of its size.

The spacecraft conforms to a triple-cube architecture (of QuakeSat heritage), introducing the newly developed "Sat bus" of Stanford University, consisting of a bus module (1 CubeSat volume) and a payload module (2 CubeSat volumes) providing a robust, repeatable, low-cost technology validation platform for exploration research. The entire satellite is about 100 mm x 100 mm x 340 mm in size with a mass of about 4.1 kg.

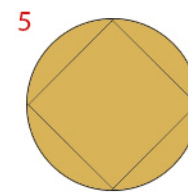




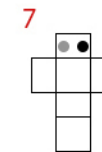
Glue to another layer of cardstock.



Fits inside the ring, glue to cardstock.



Outside



Need a long tooth pic or wooden skewer the same diameter cut around 3 inches (77mm) long, colored light grey or silver.

8

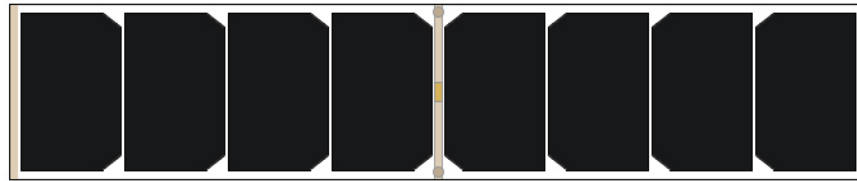
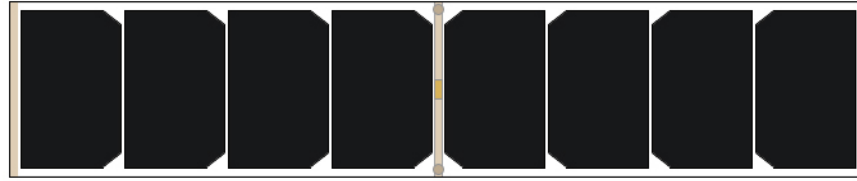


Glue the tooth pic on the long edge and the ends flushed, let dry and roll tightly and glue in place. The other end of the rod should extend out beyond the other edge of the part above by around 5mm.

2



Glue to two layers of cardstock



9

