

BUILD YOUR OWN SATELLITE

A satellite is a structure that orbits, or revolves around, a larger object in space. Satellites can be natural (such as the moon) or artificial (made by people). Most artificial satellites orbit Earth. Satellites are used to study planets, help forecast the weather, allow people to communicate via telephone and assist in the navigation of ships and airplanes.

This week's competition is to build and design your own satellite! Models can be made out of any materials you have lying around the house, including recycled cardboard, containers, bottles and any craft materials.

Models need to have the following features:

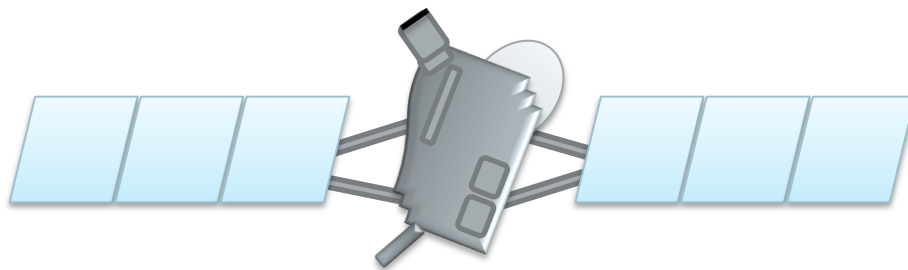
Body: Your satellite needs a body to hold all of the gadgets inside and keep its instruments attached and safe.

Power Source: You will need to power all of the high-tech gadgets on your satellite. Solar panels or batteries are both options.

Scientific Instruments: What is the purpose of your satellite? Are you going to take pictures of other planets, send communication messages around Earth, or track the stars? Be sure to attach the relevant equipment to your satellite so that it can successfully complete its tasks.

Communication Device: Your satellite will need a way to communicate with Earth. Antennas are a good method of doing this.

Orientation Finder: Make sure that you have something that lets your satellite know which direction it is pointing in and where in space it is located.



Possible materials for your model include:

Small boxes	Toothpicks	Chopsticks	Plastic cups	Ice lolly sticks
Straws	Paperclips	cardboard	Balloons	CD's
Paper	Rubber bands	Sponges	Velcro	Tape
Foil	Cereal box	Kitchen roll	Sticks	Glue