

Building NASA's EO-3 Satellite

Curriculum Topics: **Science** – technology, orbit, gravity, atmosphere, weather, electrical, mass, volume, stars, light, terminology.

Art – constructing and coloring/shading

Language art – vocabulary building

Process objectives: Students will construct a 3-D paper satellite model using written instructions

Conceptual objectives: Students will be able to identify the satellites variety of instruments and their functions.

Materials and tools: Card stock paper
Paper scissors
Ruler
Pencil
Hole punch
Cutting surface
Glue
5 X 5 cm square of aluminum foil
Straw
Colored markers, crayons or pencils

Prep:

1. Copy satellite model for each student onto 8½ X 11” cardstock paper
2. Cut aluminum foil into 5X5 cm squares

Procedure:

1. Have students watch NASA Connect #4 – “Ahead Above the Clouds”
2. Distribute satellite model, assembly instruction and vocabulary list
3. Have students begin coloring and assembling the satellite model
4. Explain each instrument as the students construct model (See understanding the terminology).

Estimated Time: Two class periods -- 1.5 hours



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