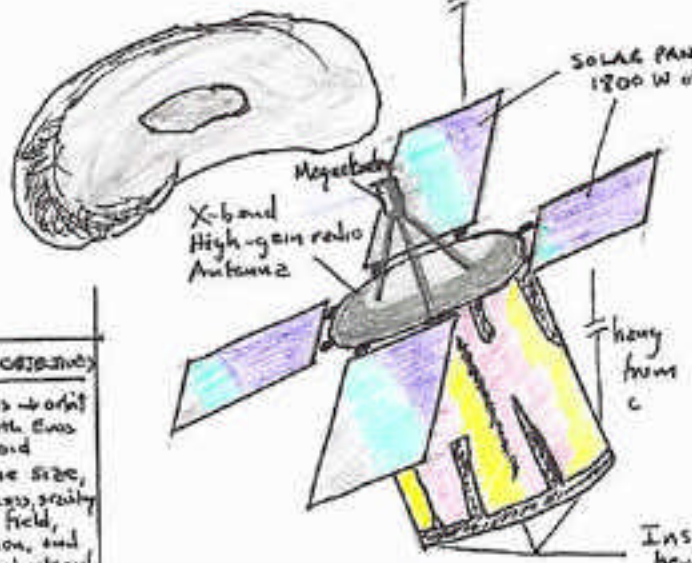
NEAR SHOEMAKER

LAUNCH: February 17, 1996
VISITED: Eros Asteroid
COST:
ORGANIZATIONS: NASA/GODDARD
JHU/APPLIED PHYSICS LAB
CORNELL UNIVERSITY
ENDED: February 12, 2001

Mission Overview

The NEAR-SHOEMAKER mission was the first NASA mission to orbit an asteroid.
(see attached text)

Mount signs on wall with tape



SAMPLE DATA FROM NEAR Infrared Spectrometer

This plot shows that the major absorption bands are due to rock-forming minerals

Instruments located here visible on model

SCIENCE OBJECTIVES

- Rendezvous w/ orbit NEAR Earth Eros 433 asteroid
- Determine size, shape, mass, gravity, magnetic field, composition, and surface and internal structure

INSTRUMENTS

Near-infrared spectrograph (NIS) -
Multispectral Imager (MSI) -
X-Ray / Gamma-ray Spectrometer (XRS-GRS)
Magnatometer (MAG) -
Laser Rangefinder (NLR)
Radio Science (RS)

see attached for specific text

TEAM MEMBERS

Josh Fischer - Docent
Anna Clarke - Lead Writer
Bev Uhl - Artistic Director
Mr. Lockwood 8th Period

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Materials

Use template on NEAR Shoemaker website to build scale model.

For Satellite:
- Paper (heavy)
- Glue
- Colored Pencils

For Asteroid:
- Light weight modeling clay
- paint (gray)

For signs:
- poster board
- colored pencils

TEACHER CERTIFICATION

Approved by: _____

Date: _____

Resources

http://nssdc.gsfc.nasa.gov/planetary/near.html