

Problem-Based Learning Unit Overview

Laurel Meadows Elementary

Topic
Force, Motion, and Energy Solar System and Space Exploration
Goals/Objectives
4.2 – Force, Motion, and Energy 4.7 a – Planets in our Solar System
Theme
Rocketry
Scenario
On July 21, 2011, The National Aeronautics Space Administration brought back the space shuttle Atlantis from outer space, marking an end to its 30 year space exploration program. Curiosity, the Mars Rover, has sent interesting information regarding the possibility of sustaining life on Mars. NASA is searching for their next group of potential Aerospace Engineers to refocus their efforts in sending astronauts back to space on Space Shuttles, with a strict budget in mind.
Culminating Activity
Rocket Design Photo Journal to show daily reflections and what they've learned
Problem Question
How can engineers design a cost effective rocket?
Student Role
Aerospace Engineer