Design Challenge: Soaring Satellites

Soaring Satellites:
Design a satellite that will hover in our wind tubes!

Design!

1. **Ask/Imagine/Plan:** What are the components of a satellite? Explore the materials available. Which materials are the heaviest or lightest? Examine the wind tubes. What is the source of the air?
   - Brainstorm different combinations of materials you could use to design your satellite.
   - Think of many different possible solutions and discuss them with your team or classmates. Think of things that hover. How are they shaped?
   - Choose a design idea that you would like to build and test. Determine which materials you will use and how you will connect them together.
2. **Create:** Construct your prototype with the materials you have selected.
3. **Test:** Ask Design Challenges staff to help you test your device. Record your results.
4. **Improve:** Try to improve your satellite by changing one variable. Test your new prototype. How long could you hover? Which design worked best? What did you learn from your tests? What other changes could you make to your design to make it more successful?

Design Challenge: Soaring Satellites
www.mos.org/designchallenges
September 2010
Funded by a generous grant from the Volunteer Service League, Museum of Science Boston

Museum of Science, Boston

Design Challenge: Soaring Satellites

Design and Test:

Describe/sketch your design and record your results.

Describe/Sketch Your Design	What happened? (Hovered in red area/blue/yellow area for how long, flew out through the top, got stuck at the bottom, etc.)

Design Challenge: Soaring Satellites
www.mos.org/designchallenges
September 2010
Funded by a generous grant from the Volunteer Service League, Museum of Science Boston

Museum of Science, Boston