

## The Mars Space Station Challenge -1

### **your mission**

build a space station that can withstand a Mars wind storm

### **know the facts**

1. Maximum wind speeds on Mars are actually only about 60 miles per hour
2. The wind doesn't even feel that fast because there is a lot less atmosphere

### **let's pretend**

For this exercise, we will pretend that this is the year 2050 and scientists have found a way to generate air on Mars. They have created an atmosphere similar to Earth and wind on Mars now feels exactly like it does on Earth.

### **Challenge**

1. using a minimum of 30 pieces of cardboard and 25 connectors, build a space station that can withstand high velocity *winds*.
  2. To test your design in a simulated Mars Wind Storm, place a desk fan on a large table. With the help of an adult, turn on the fan and place your Space Station as close to the fan as you can without it moving or getting knocked over. (consider a photo or video to submit to [ayana@3duxdesign.com](mailto:ayana@3duxdesign.com))
  3. measure your results and document the distance
  4. Now think about how you can redesign your station to make it more wind stable.
- Try to get your station as close to the fan as possible.  
Document as you go.

