

Elevator Project I

Building a Pulley Structure with PVC Pipe

Date _____

Team Name _____

Team Members _____

Problem Statement (Description of the problem we need to solve)

Build a structure that can support a pulley.

Specifications (What are the project requirements? What must our solution do?)

Structure must be able to support a pulley while lifting a 2000 gram weight.

Constraints (Things that limit our solution like size, weight, time, materials)

Structure must be made from PVC pipe and be approximately one meter high.

Results: (Use another sheet of paper if necessary.)

How much weight could your pulley lift without straining the structure?

Draw a picture of your project.

If another group made a sturdier structure, draw a picture of their structure. What made their structure sturdier?

What did you learn about building with PVC pipe?