

Name:

Date:

Activity 4.2 “Hurricane Houses”

Objective:

To use problem solving and math skills to build a hurricane proof house

Materials (per student team):

- Styrofoam tray (to be used only for the base!)
- Two 9 x 12 pieces of construction paper
- 4 straws
- Glue
- 60 cm of cellophane tape

Team Members (names):



Explain your design in detail and why you chose this particular design. (Use at least 3 or 4 complete sentences.)

List your hurricane proof features: (at least three)

Using graph paper or construction paper, draw your house in both “plan view” (top down) and elevation (side on). Show the correct shape and label the actual measurements of your house on the diagram. Attach your “architectural drawing” to this Worksheet.

Calculate the volume of your house, showing your work. List each formula for volume that you needed to use. The volume should be 1500 cubic cm.

Did your house withstand "strong", "mild" or "light" tropical winds?

What could you do to improve your design?

