

Raft Design

Names: _____

Objective:

You and a partner will design and construct a raft that can support the greatest number of paper clips before sinking.

Rules:

- Use only the materials provided
- Raft must be able to float
- Raft cannot be supported from the bottom or sides of the sink
- Raft must be able to support at least 35 paper clips

Materials Provided

20 craft sticks

12" X 12" sheet of plastic wrap

6" X 12" sheet of aluminum foil

hot glue sticks

paper clips

	<u>Size Min</u>	<u>Size Max</u>
Length	3"	6"
Width	3"	6"

Tools:

Scissors, ruler, glue guns

Grading:

Excellent (1 point each) extra credit

- ☐ Raft held the most paper clips in this class

Very Good (5 points each)

- ☐ Raft was able to float with no paper clips in it
- ☐ Raft was not supported by the bottom or sides of the sink
- ☐ Raft was within size limits
- ☐ Raft supported at least 35 paper clips

Good (3 points each)

- ☐ Raft floated for a short time
- ☐ Raft was too large/too small

This project is worth 20 points. Your total points _____